CITY OF KIRKLAND

INTERSECTION IMPROVEMENTS

NE 132ND ST/108TH AVE NE

PROJECT NO. 49-20-PW

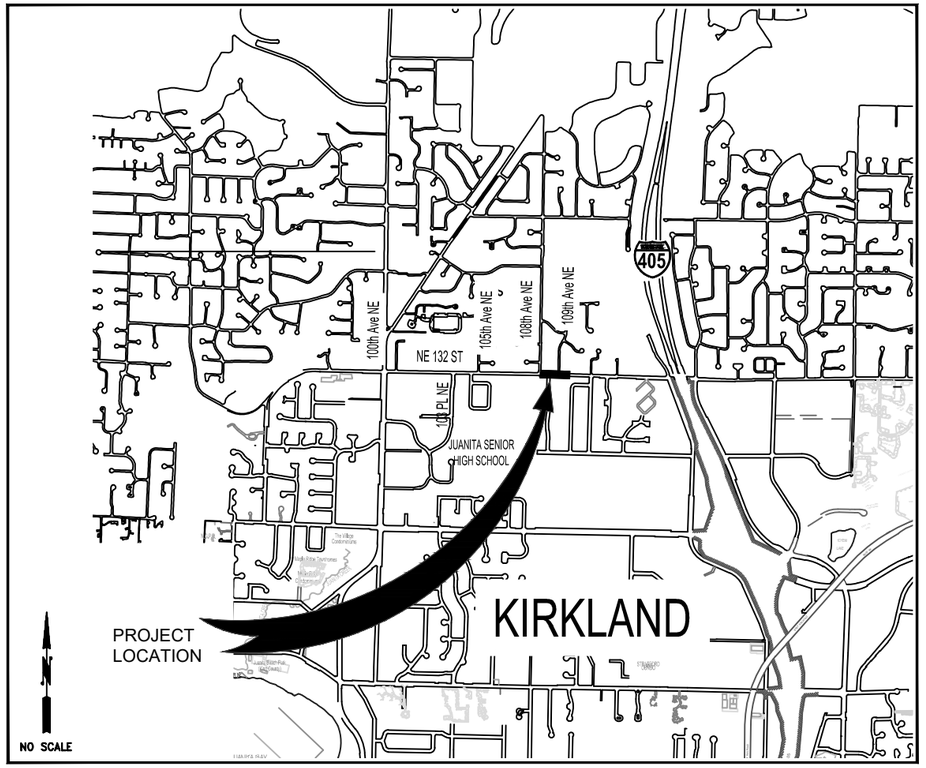
NOVEMBER, 2021

CITY OFFICIALS

PENNY SWEET	MAYOR
JAY ARNOLD	DEPUTY MAYOR
NEAL BLACK	COUNCIL MEMBER
KELLI CURTIS	COUNCIL MEMBER
AMY FALCONE	COUNCIL MEMBER
TOBY NIXON	COUNCIL MEMBER
JON PASCAL	COUNCIL MEMBER
KURT TRIPLETT	CITY MANAGER
JULIE UNDERWOOD	PUBLIC WORKS DIRECTOR
ROD STEITZER, PE	CAPITAL PROJECTS MANAGER

CONTACT PERSONNEL

NAME	AGENCY	PHONE
SCOTT GONSAR, PE	COK PROJECT ENGINEER	425.587.3830
CM INSPECTOR NAME	PROJECT INSPECTOR	<PHONE #>
STEVE HOOPES	COK FIELD REPRESENTATIVE	425.623.5086
RIK MAYER	COK FIELD REPRESENTATIVE	206.496.4265
BEN McVITTIE	COK FIELD REPRESENTATIVE	425.410.4606
JEANNE COLEMAN	PUGET SOUND ENERGY (GAS)	425.449.7410
FREMONT AGUINALDO	PUGET SOUND ENERGY (ELECTRIC)	425.223.0936
JOE FORDON	COMCAST CABLE	425.263.5348
JAY SCHWAB	ZIPLEY FIBER	425.263.4019
GEORGE MATOTE	NORTHSHORE UTILITY DISTRICT	425.521.3727
KEN McDOWELL	WOODINVILLE WATER DISTRICT	425.487.4104
CONST. COORDINATOR	KING COUNTY METRO	206.477.5849
BRIAN BUCK	LAKE WASH. SCHOOL DISTRICT	425.936.1120
EMERGENCY	NORCOM	911
POLICE MAIN LINE	COK	425.587.3400
FIRE MAIN LINE	COK	425.864.3650
SPILL RESPONSE HOTLINE	COK	425.587.3900
ONE CALL UTILITY LOCATE		800.424.5555



AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

BRYAN J. HUSCHKA
STATE OF WASHINGTON
0026659
REGISTERED
PROFESSIONAL ENGINEER

11/12/2021

INDEX OF DRAWINGS

GENERAL NOTES

1. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
2. ALL ROADWAY WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CURRENT APWA AND COK STANDARDS AND SPECIFICATIONS.
3. A COPY OF THE APPROVED ROADWAY PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. ALL DRIVEWAYS MUST CONFORM TO THE COK DEPARTMENT OF PUBLIC WORKS DRIVEWAY POLICY.
5. ALL CONCRETE FOR SIDEWALKS AND CURB AND GUTTER MUST BE 4,000 PSI MINIMUM. (5-3/4 SACK MIX)
6. ANY ROADWAY SIGNAGE OR STRIPPING REMOVED OR TEMPORARILY MOVED BY THE CONTRACT SHALL BE RESTORED SO AS TO MEET THE CURRENT COK STANDARDS.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY TRAFFIC CONTROL. TO ENSURE TRAFFIC AND PEDESTRIAN SAFETY DURING CONSTRUCTION ACTIVITIES. THEREFORE, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL AT LEAST 48 HOURS PRIOR TO STARTING ANY WORK IN THE RIGHT OF WAY. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MUTCD OR AS MODIFIED BY THE TRAFFIC ENGINEER.
8. SIDEWALK AND CURB AND GUTTER CANNOT BE POURED MONOLITHICALLY. THERE MUST BE A COLD JOINT OR A FULL-DEPTTH EXPANSION JOINT BETWEEN THEM.
9. TESC MEASURERS SHALL BE TAKEN BY THE CONTRACTOR TO PROVIDE GROUND COVER IN AREAS WHICH HAVE BEEN STRIPPED OF NATURAL VEGETATION OR HAVE A POTENTIAL FOR EROSION.
10. ANY EXISTING PUBLIC IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR PRIOR TO FINAL INSPECTION

ABBREVIATIONS

COK	CITY OF KIRKLAND
CONC	CONCRETE
COS	CLEAN OUT SANITARY SEWER
COD	CLEAN OUT STORM DRAIN
ELEC	ELECTRIC
EX	EXISTING
HMA	HOT MIX ASPHALT
JB	JUNCTION BOX
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NTS	NOT TO SCALE
PAP	PRE-APPROVED PLANS
R/W	RIGHT OF WAY
RET	RETAINING
TCE	TEMPORARY CONSTRUCTION EASEMENT
TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
TRANS	TRANSFORMER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

LEGEND

	EXISTING	PROPOSED
MAG NAIL		
MONUMENT IN CASE		
GAS VALVE		
POWER POLE		
GUY ANCHOR		
LUMINAIRE		
TRANSFORMER		
WATER METER		
WATER VALVE		
FIRE HYDRANT		
COMMUNICATIONS MAN HOLE	T	T
COMMUNICATIONS VAULT	T	T
SANITARY SEWER MANHOLE	SS	SS
CLEAN OUT		
STORM DRAIN CATCH BASIN		
TRAFFIC SIGNAL POLE		
TRAFFIC SIGNAL POLE W/LUMINAIRE		
PEDESTRIAN SIGNAL		
TRAFFIC SIGNAL PULL BOX	TR	TR
SIGN		
MAILBOX		
DECIDUOUS TREE		
EVERGREEN/CONIFER TREE		
SHRUBS		
OVERHEAD POWER LINE	OHP OHP	OHP OHP
UNDERGROUND SEWER LINE	SS SS	SS SS
UNDERGROUND STORM LINE	SD SD	SD SD
UNDERGROUND WATER LINE	W W	W W
UNDERGROUND GAS LINE	G G	G G

DATE	NO.	REVISION	BY

BRYAN L. HUSCHKA — STATE OF WASHINGTON — 46286 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM:	VERT. DATUM:
DESIGNED BY: RWM	DRAWN BY: HL

AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

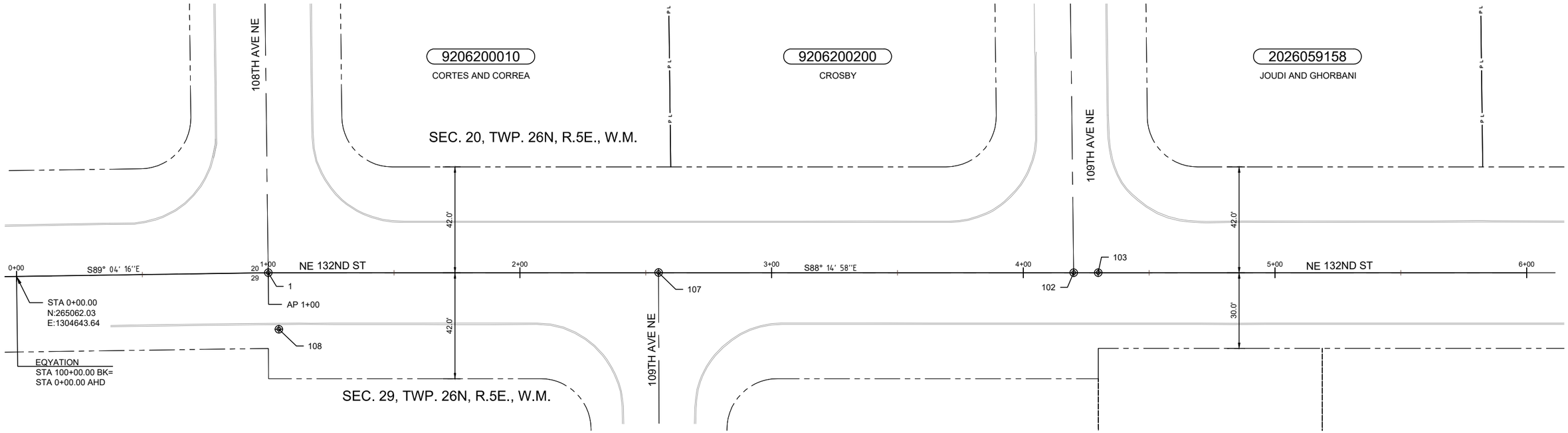
FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS

NOTES, LEGEND AND ABBREVIATIONS

REFERENCE SHEET NO. NT1

SHEET 2 OF 21 SHEETS



1-ALLIANCE CONTROL POINTS						
Point #	Northing	Easting	Elevation	Sta offset	Code	Description
1	265060.41	1304743.63	170.95	STA 1+00.00	MIC	FOUND MON IN CASE AT CENTER OF INTX OF NE 132ND ST & 108TH AVE NE
100	265077.22	1303706.90	93.28	STA -9+36.87	MIC	FOUND 2" BRASS MON IN CASE AT CENTER OF INTX OF NE 132ND ST & 105TH AVE NE
101	264761.32	1304890.44	178.25	STA 2+55.89, 294.45' RT	MIC	FOUND LEAD & TACK IN CONC IN MON CASE IN CL OF 109TH AVE NE, S OF NE 132ND ST
102	265050.63	1305063.49	181.04	STA 4+20.00	MIC	FOUND BRASS NAIL IN CONC IN MON CASE AT CENTER OF INTX OF NE 132ND ST & 109TH AVE NE
103	265050.39	1305073.19	181.23	STA 4+29.70, 0.05 LT	MIC	FOUND BRASS NAIL IN CONC IN MON CASE, 10' E OF INTX OF NE 132ND ST & 109TH AVE NE
104	265034.10	1305603.52	179.74	STA 10+10.28	MIC	FOUND 1" BRASS MON IN CASE AT CENTER OF INTX OF NE 132ND ST & 111TH AVE NE
105	265033.68	1305616.92	179.33	STA 10+23.70	MIC	FOUND BRASS NAIL IN CONC IN MON CASE AT INTX OF NE 132ND ST & 111TH AVE NE
106	265257.74	1304747.28	176.14	STA 1+00.00, 197.77 LT	MIC	FOUND 2" BRASS MON IN CASE AT CENTER OF INTX OF NE 132ND PL & 108TH AVE NE
107	265055.74	1304898.65	176.95	STA 2+55.09, 0.07' LT	MIC	FOUND MON IN CASE AT CENTER OF INTX OF NE 132ND ST & 109TH AVE NE
108	265037.89	1304747.16	172.61	STA 1+04.23, 22.36' RT	MAG	SET MAG NAIL ON S SIDE OF ROAD AT INTX OF NE 132ND ST AND 108TH AVE NE

SURVEY NOTES:

1. HORIZONTAL DATUM: PROJECT SYSTEM DERIVED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE (4601), NAD83(CORS96)EPOCH2002.0, US SURVEY FOOT.
2. VERTICAL DATUM: NAVD88
3. BASIS OF BEARINGS: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE (4601), NAD83/91, US SURVEY FOOT (GRID)
4. PROJECT BENCHMARK: FOUND MONUMENT IN CASE AT THE INTERSECTION OF 108TH AVE NE AND NE 132ND ST. (1-ALLIANCE #1, ELEV. = 170.95).
5. FIELD WORK FOR THIS SURVEY WAS PERFORMED IN SEPTEMBER, 2019. MONUMENTS AND CONTROL POINTS SHOWN HEREIN WERE VISITED AND/OR SET IN SEPTEMBER, 2019.
6. CONTOURS SHOWN ARE DERIVED FROM DIRECT FIELD OBSERVATIONS.
7. THE PROJECT SCALE FACTOR (COMBINED) USED FOR THIS PROJECT IS 0.99996191.
8. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREIN ARE APPROXIMATE LOCATIONS ONLY BASED ON THE FIELD LOCATION OF UTILITY LOCATE PAINT MARKS AND PHYSICAL FEATURES VISIBLE ON OR ABOVE THE GROUND SURFACE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ANY AND ALL UNDERGROUND UTILITIES BEFORE BEGINNING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AN ALL DAMAGES ARISING OUT OF HIS/HER FAILURE TO EXACTLY LOCATE AND PROTECT ALL EXISTING UTILITY FACILITIES.
9. UTILITY LOCATES FOR THIS PROJECT WERE PERFORMED BY ONE-CALL.

N

20 0 20 40
SCALE IN FEET

DATE	NO.	REVISION	BY

BRYAN J. HUSCHKA — STATE OF WASHINGTON — 26659 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

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AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

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DEPARTMENT OF PUBLIC WORKS
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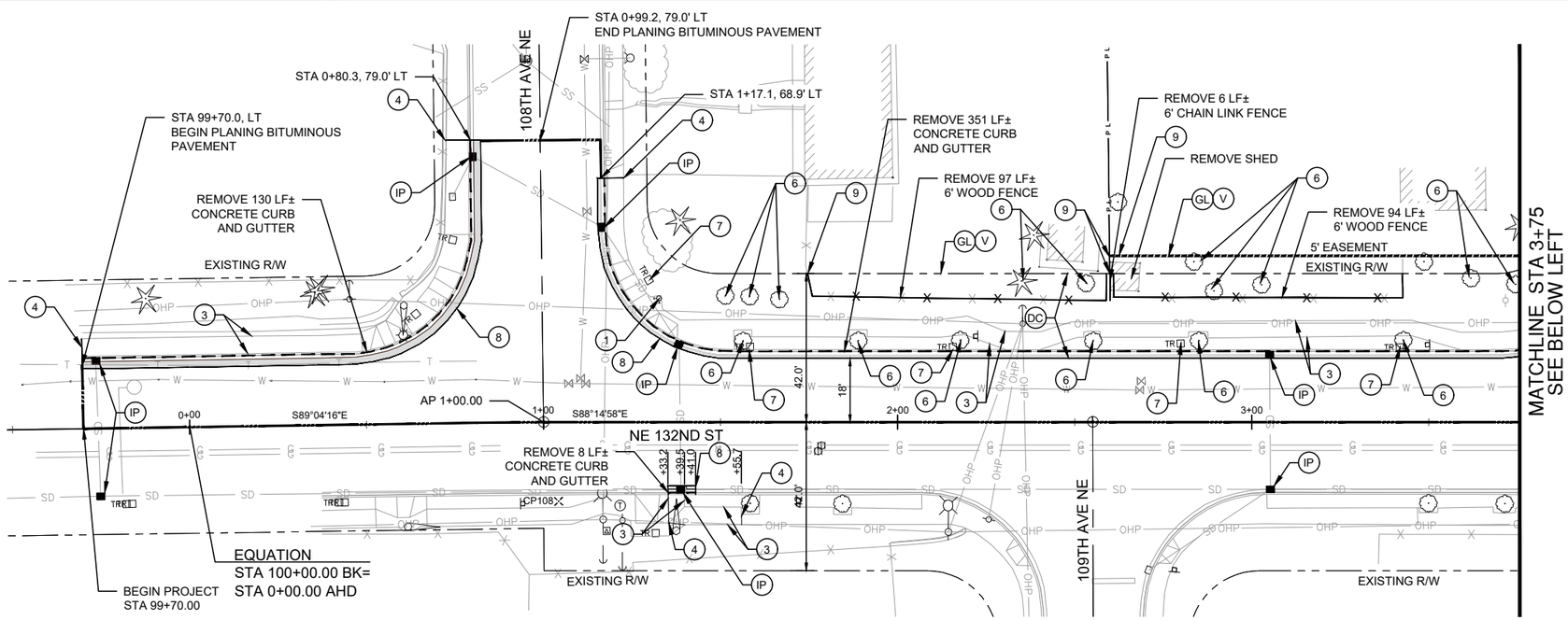
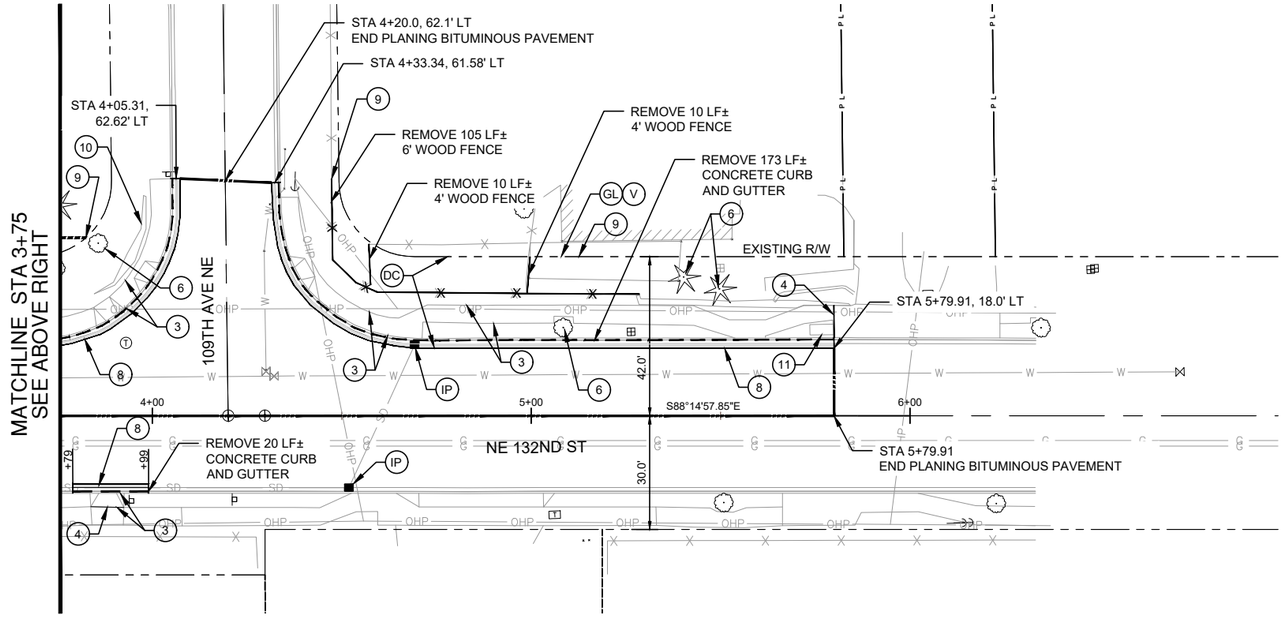
NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS

SURVEY CONTROL PLAN

REFERENCE SHEET NO. SV1

SHEET 3 OF 21 SHEETS





CONSTRUCTION NOTES

1. RELOCATE PEDESTRIAN SIGNAL, SEE SIGNAL PLANS FOR DETAILS
3. REMOVE CEMENT CONCRETE SIDEWALK
4. SAWCUT CEMENT CONCRETE SIDEWALK, CURB AND GUTTER
5. REMOVE SHRUB (NOT ALL SHOWN FOR CLARITY)
6. REMOVE TREE (NOT ALL SHOWN FOR CLARITY)
7. REMOVE TRAFFIC SIGNAL PULL BOX, SEE SIGNAL PLAN SHEETS FOR REVISED LOCATION
8. SAWCUT AND REMOVE ASPHALT CONCRETE PAVEMENT
9. INSTALL TEMPORARY SIX FOOT HIGH CHAIN LINK FENCE, ONE FOOT INSIDE RIGHT-OF-WAY LINE OR TEMPORARY CONSTRUCTION EASEMENT LIMITS, CONNECT TO FENCE TO REMAIN
10. REMOVE STONE WALL AND STACK STONES ON PRIVATE PROPERTY AT LOCATION DESIGNATED BY THE ENGINEER
11. PROTECT MAILBOX IN PLACE

GENERAL NOTES

1. ALL SAWCUT LINES SHALL BE A MINIMUM OF ONE FOOT FROM THE EDGE OF PAVEMENT.
2. SEE DRAINAGE AND UTILITY PLAN AND PROFILE FOR UTILITY REMOVALS OR RELOCATIONS.
3. SEE MARKING AND SIGNING PLAN FOR REMOVAL OR RELOCATION OF SIGNS.

BMP LEGEND

- IP — TEMPORARY STORM DRAIN INLET PROTECTION (CATCH BASIN INSERTS) PER KIRKLAND STD NO. CK-E.11
- V — HIGH VISIBILITY SILT FENCE - PLACE ALONG RIGHT-OF WAY LINE OR TEMPORARY CONSTRUCTION EASEMENT LIMITS PER WSDOT STANDARD PLAN I-30.17
- DC — DUST CONTROL MEASURES
- GL — GRADING LIMITS (WITHIN RIGHT-OF-WAY)

SITE PREPARATION LEGEND

- SAWCUT ASPHALT CONCRETE
- REMOVE CURB AND GUTTER
- REMOVE FENCE
- PLANING BITUMINOUS PAVEMENT LIMIT

N

20 0 20 40
SCALE IN FEET

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BRYAN J. HUSEBY — STATE OF WASHINGTON — 16026659 — REGISTERED PROFESSIONAL ENGINEER
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NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS SITE PREPARATION AND TESC PLAN

REFERENCE SHEET NO. SP1

SHEET 4 OF 21 SHEETS

EROSION / SEDIMINTATION CONTROL - PLAN NOTES

1. The approved Construction Sequence shall be as follows:
   a. Conduct pre–construction meeting.
   b. Flag or fence clearing limits.
   c. Post sign with name and phone number of TESC supervisor.
   d. Install catch basin protection downstream and as determined by the City inspector.
   e. Grade and install construction entrance(s).
   f. Install perimeter protection (silt fence, brush barrier, etc.).
   g. Construct sediment ponds and traps.
   h. Grade and stabilize construction roads.
   i. Construct surface water controls (interceptor dikes, pipe slope drains, etc.) simultaneously with clearing and grading for project development.
   j. Maintain erosion control measure in accordance with City of Kirkland Standards and manufacturer's recommendations.
   k. Relocate erosion control measures or install new measures so that as site conditions change, the erosion and sediment control is always in accordance with the City TESC minimum requirements.
   l. Cover all areas within the specified time frame with straw, wood fiber mulch, compost, plastic sheeting, crushed rock or equivalent.
   m. Stabilize all areas that reach final grade within 7 days.
   n. Seed or sod any areas to remain unworked for more than 30 days.
   o. Upon completion of the project, all disturbed areas must be stabilized and best management practices removed if appropriate.

2. Contractor is responsible for keeping streets clean and free of contaminants at all times and for preventing an illicit discharge (KMC 15.52) into the municipal storm drain system. If your construction project causes an illicit discharge to the municipal storm drain system, the City of Kirkland Storm Maintenance Division will be called to clean the public storm system, and other affected public infrastructure. The contractor(s), property owner, and any other responsible party may be charged all costs associated with the clean–up and may also be assessed monetary penalties (KMC 1.12.200). The minimum penalty is $500. A fine for a repeat violation shall be a multiplied by the number of violations. A fine may be reduced or waived for persons who immediately self–report violation to the city at 425–587–3900. A Final Inspection of your Project will not be granted until all costs associated with the clean–up, and penalties, are paid to the City of Kirkland.

3. Construction dewatering discharges shall always meet water quality guidelines listed in COK Policy E–1. Specifically, discharges to the public stormwater drainage system must be below 25 ntu, and not considered an illicit discharge (per KMC 15.52.090). Temporary discharges to sanitary sewer require prior authorization and permit from King County Industrial Waste Program (206–263–3000) and notification to the Public Works Construction Inspector.

4. All work and materials shall be in accordance with City of Kirkland standards and specifications.

5. The boundaries of the clearing limits shown on this plan shall be set by survey and clearly flagged in the field by a clearing control fence prior to construction. During the construction period, no disturbance or removal of any ground cover beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the Permittee/Contractor for the duration of construction.

6. Approval of this erosion/sedimentation control (ESC) plan does not constitute an approval of permanent road or drainage design (e.g., size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.).

7. The implementation of this ESC plan and the construction, maintenance, replacement, and upgrading of these ESC facilities is the responsibility of the Permittee/Contractor until all construction is approved.

8. A copy of the approved ESC plans must be on the job site whenever construction is in progress.

9. The ESC facilities shown on this plan must be constructed prior to or in conjunction with all clearing and grading activities in such a manner as to ensure that sediment–laden water does not enter the drainage system or violate applicable water standards. Wherever possible, maintain natural vegetation for silt control.

10. The ESC facilities shall be constructed in accordance with the details on the approved plans. Locations may be moved to suit field conditions, subject to approval by the Engineer and the City of Kirkland Inspector.

11. The ESC facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these ESC facilities shall be upgraded (e.g., additional sumps, relocation of ditches and silt fences, etc.) as needed for unexpected storm events. Additionally, more ESC facilities may be required to ensure complete siltation control. Therefore, during the course of construction it shall be the obligation and responsibility of the Contractor to address any new conditions that may be created by his activities and to provide additional facilities over and above the minimum requirements as may be needed.

12. The ESC facilities shall be inspected by the Permittee/Contractor daily during non–rainfall periods, every hour (daylight) during a rainfall event, and at the end of every rainfall, and maintained as necessary to ensure their continued functioning. In addition, temporary siltation ponds and all temporary siltation controls shall be maintained in a satisfactory condition until such time that clearing and/or construction is completed, permanent drainage facilities are operational, and the potential for erosion has passed. Written records shall be kept documenting the reviews of the ESC facilities.

13. The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within 48 hours following a storm event.

14. Stabilized construction entrances shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures, such as wash pads, may be required to ensure that all paved areas are kept clean for the duration of the project.
Erosion – Plan Notes (continued)

15. All denuded soils must be stabilized with an approved TESC method (e.g. seeding, mulching, plastic covering, crushed rock) within the following timelines: o May 1 to September 30 – soils must be stabilized within 7 days of grading. o October 1 to April 30 – soils must be stabilized within 2 days of grading. o Stabilize soils at the end of the workday prior to a weekend, holiday, or predicted rain event.

16. Where seeding for temporary erosion control is required, fast germinating grasses shall be applied at an appropriate rate (example: annual or perennial rye applied at approximately 80 pounds per acre).

17. Where straw mulch is required for temporary erosion control, it shall be applied at a minimum thickness of 2".

18. All lots adjoining or having any native growth protection easements (NGPE) shall have a 6' high temporary construction fence (chain link with pier blocks) separating the lot (or buildable portions of the lot) from the area restricted by the NGPE and shall be installed prior to any grading or clearing and remain in place until the Planning Department authorizes removal.

19. Clearing limits shall be delineated with a clearing control fence. The clearing control fence shall consist of a 6–ft. high chain link fence adjacent the drip line of trees to be saved, wetland or stream buffers, and sensitive slopes. Clearing control fences along wetland or stream buffers or upslope of sensitive slopes shall be accompanied by an erosion control fence. If approved by the City, a four–foot high orange mesh clearing control fence may be used to delineate clearing limits in all other areas.

20. Off–site streets must be kept clean at all times. If dirt is deposited on the public street system, the street shall be immediately cleaned with power sweeper or other equipment. All vehicles shall leave the site by way of the construction entrance and shall be cleaned of all dirt that would be deposited on the public streets.

21. Rock for erosion protection of roadway ditches, where required, must be of sound quarry rock, placed to a depth of 1' and must meet the following specifications: 4"–8" rock/40%–70% passing; 2"–4" rock/30%–40% passing; and 1"–2" rock/10%–20% passing. Recycled concrete shall not be used for erosion protection, including construction entrance or temporary stabilization elsewhere on the site.

22. If any part(s) of the clearing limit boundary or temporary erosion/sedimentation control plan is/are damaged, it shall be repaired immediately.

23. All properties adjacent to the project site shall be protected from sediment deposition and runoff.

24. At no time shall more than 1' of sediment be allowed to accumulate within a catch basin. All catch basins and conveyance lines shall be cleaned immediately following removal of erosion control BMPs. The cleaning operation shall not flush sediment–laden water into the downstream system.

25. Any permanent retention/detention facility used as a temporary settling basin shall be modified with the necessary erosion control measures and shall provide adequate storage capacity. If the permanent facility is to function ultimately as an infiltration or dispersion system, the facility shall not be used as a temporary settling basin. No underground detention tank, detention vault, or system which backs under or into a pond shall be used as a temporary settling basin.

26. All erosion/sedimentation control ponds with a dead storage depth exceeding 6" must have a perimeter fence with a minimum height of 3'.

27. The washed gravel backfill adjacent to the filter fabric fence shall be replaced and the filter fabric cleaned if it is nonfunctional by excessive silt accumulation as determined by the City of Kirkland. Also, all interceptor swales shall be cleaned if silt accumulation exceeds one–quarter depth.

28. Prior to the October 1 of each year (the beginning of the wet season), all disturbed areas shall be reviewed to identify which ones can be seeded in preparation for the winter rains. The identified disturbed area shall be seeded within one week after October 1. A site plan depicting the areas to be seeded and the areas to remain uncovered shall be submitted to the Public Works Construction Inspector. The Inspector can require seeding of additional areas in order to protect surface waters, adjacent properties, or drainage facilities.

29. Any area to be used for infiltration or pervious pavement (including a 5–foot buffer) must be surrounded by silt fence prior to construction and until final stabilization of the site to prevent soil compaction and siltation by construction activities.

30. If the temporary construction entrance or any other area with heavy vehicle loading is located in the same area to be used for infiltration or pervious pavement, 6" of sediment below the gravel shall be removed prior to installation of the infiltration facility or pervious pavement (to remove fines accumulated during construction).

31. Any catch basins collecting runoff from the site, whether they are on or off the site, shall have adequate protection from sediment. Catch basins directly downstream of the construction entrance or any other catch basin as determined by the City Inspector shall be protected with a "storm drain protection insert" or equivalent.

32. If a sediment pond is not proposed, a baker tank or other temporary ground and/or surface water storage tank may be required during construction, depending on weather conditions.

33. Do not flush concrete by–products or trucks near or into the storm drainage system. If exposed aggregate is flushed into the storm system, it could mean re–cleaning the entire downstream storm system, or possibly re–laying the storm line.

34. Recycled concrete shall not be stockpiled on site, unless fully covered with no potential for release of runoff.

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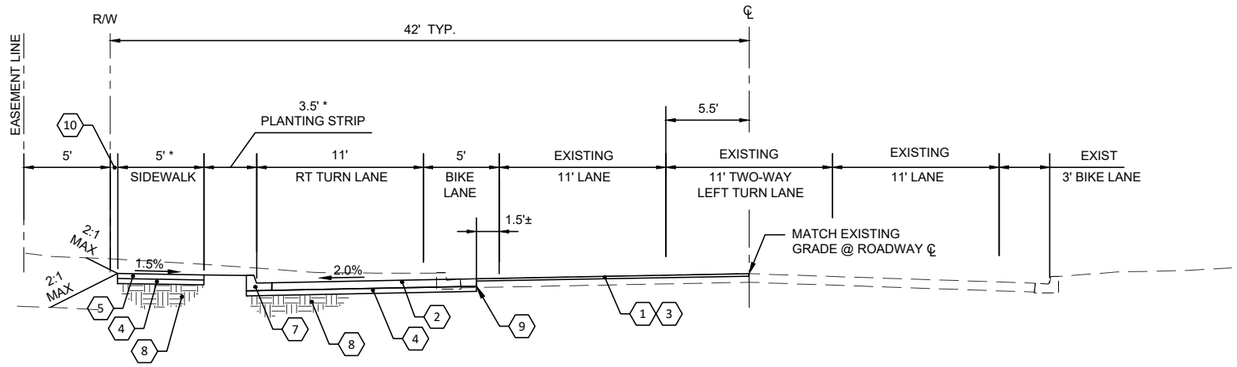
NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS
EROSION / SEDIMINTATION CONTROL - PLAN NOTES

REFERENCE SHEET NO. SP2
SHEET 5 OF 21 SHEETS

NOTES

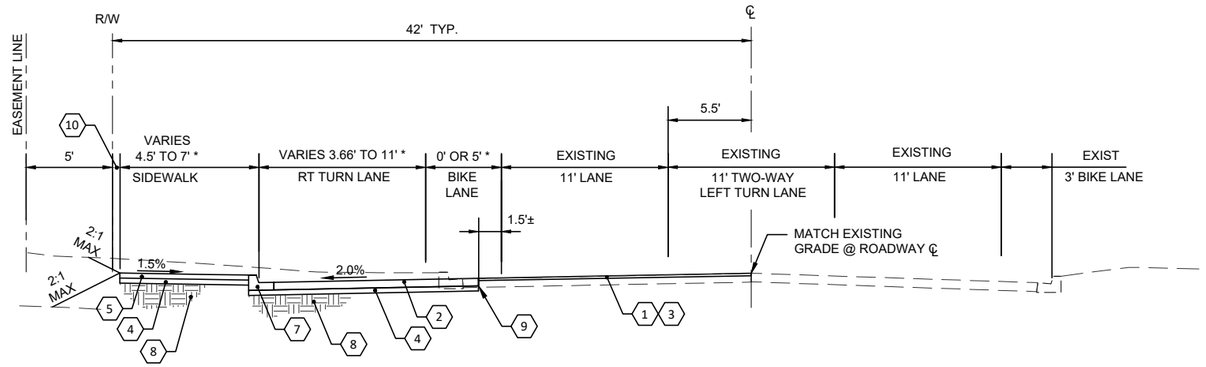
1. 2" PLANING BITUMINOUS PAVEMENT
2. 6" DEPTH HMA CL 1/2" IN. PG 58H-22 (3" MAX LIFT)
3. 2" DEPTH HMA CL 1/2" IN. PG 58H-22
4. 4" CRUSHED SURFACE BASE COURSE
5. 4" CEMENT CONCRETE SIDEWALK PER CITY OF KIRKLAND STANDARD NO. CK-R.23 AND NO. CK-R.08
6. NOT USED
7. CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF KIRKLAND STANDARD NO. CK-R.17
8. COMPACTED SUBGRADE, INCIDENTAL TO CONSTRUCTION WORK
9. SAWCUT PAVEMENT 1.0' MIN. FROM EDGE OF EXISTING CONCRETE GUTTER UNLESS OTHERWISE SHOWN
10. INSTALL STRUCTURAL EARTH (CONCRETE STANDARD UNIT BLOCK) WALL WHERE SHOWN ON SHEETS W1 THRU W3



TYPICAL ROADWAY SECTION A

NE 132ND ST. STA 1+00.00 TO 5+20.56

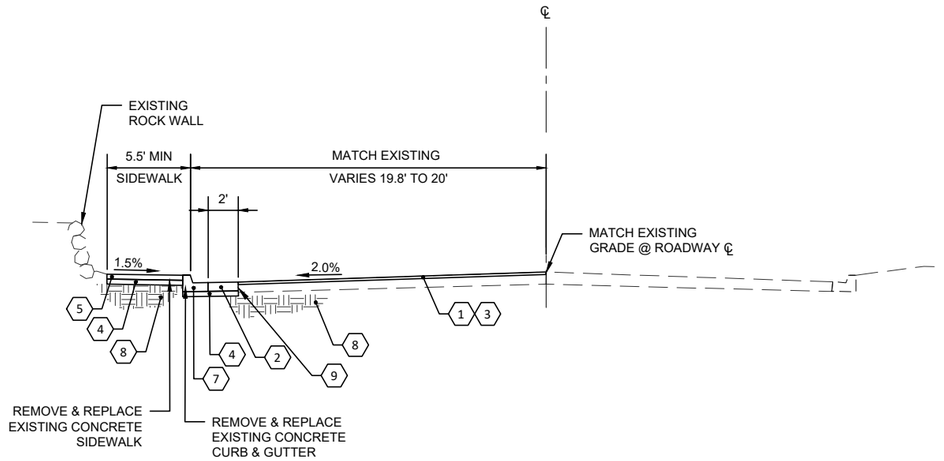
* WIDTH VARIES, SEE SHEETS PP1 THRU PP2



TYPICAL ROADWAY SECTION B

132ND ST STA 5+20.56 TO 5+79.88

* WIDTH VARIES, SEE SHEETS PP1 THRU PP2



TYPICAL ROADWAY SECTION C

STA 99+70 TO 1+00

DATE	NO.	REVISION	BY

BRYAN J. HUSCHKA — STATE OF WASHINGTON — 23626 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM:	VERT. DATUM:
DESIGNED BY: RWM	DRAWN BY: HL

AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
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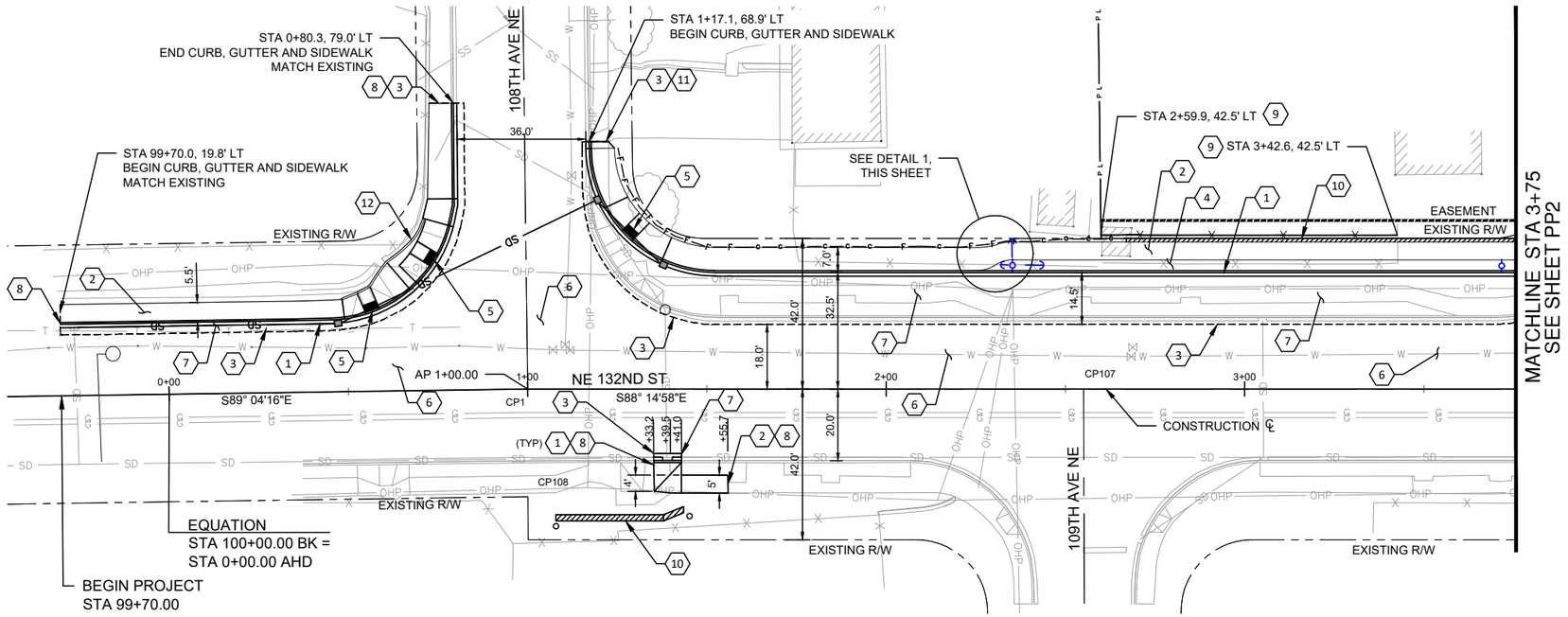
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS TYPICAL ROADWAY SECTIONS

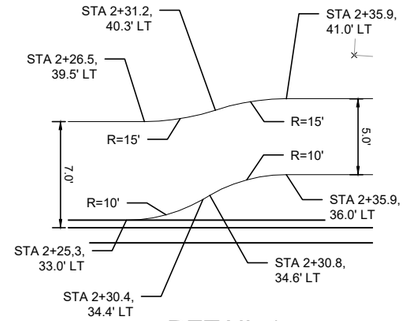
REFERENCE SHEET NO. RS1

SHEET 6 OF 21 SHEETS

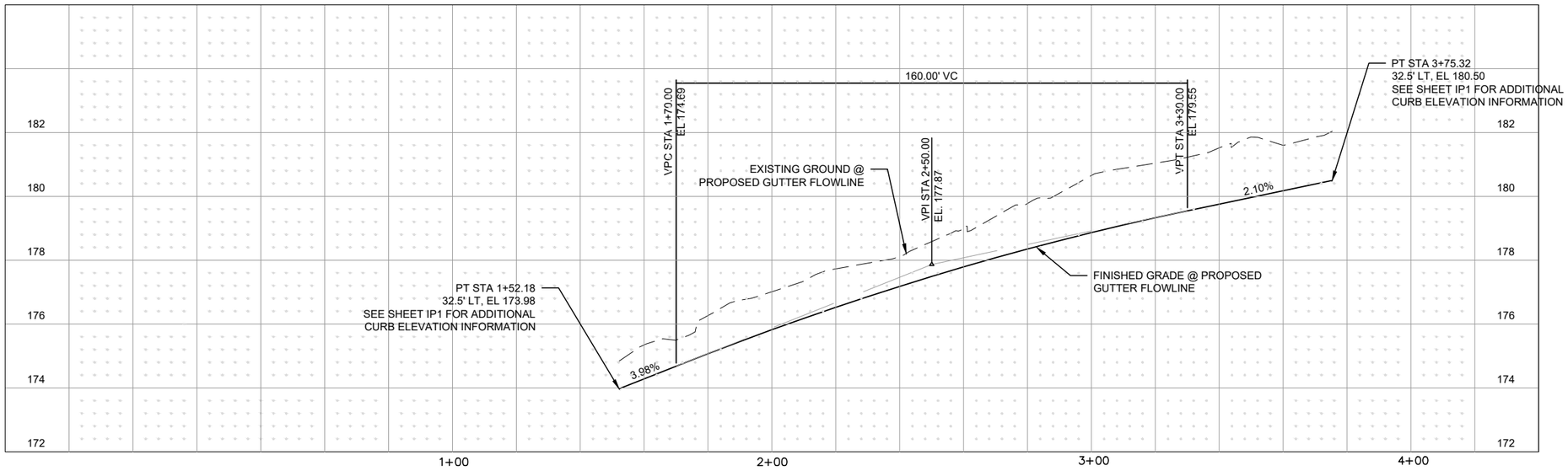


CONSTRUCTION NOTES

1. INSTALL CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF KIRKLAND STANDARD NO. CK-R.23
2. INSTALL CEMENT CONCRETE SIDEWALK PER CITY OF KIRKLAND STANDARD NO. CK-R.23 AND CK-R.08
3. SAWCUT
4. PLANTING STRIP
5. INSTALL PARALLEL CURB RAMP TYPE A PER WSDOT STANDARD PLAN NO. F-40.12. SEE SHEET IP1 FOR STATION AND SIDEWALK DIMENSIONS
6. HMA OVERLAY, SEE SHEET SP1 FOR LIMITS
7. CONSTRUCT ASPHALT PAVEMENT, SEE SHEET RS1 FOR ADDITIONAL INFORMATION
8. MATCH EXISTING CURB AND SIDEWALK ELEVATION
9. INSTALL 6 FT CEDAR WOOD FENCE
10. INSTALL WALL, SEE SHEETS W1 AND W2
11. MATCH EXISTING CURB AND DRIVEWAY ELEVATION
12. INSTALL PEDESTRIAN CURB PER WSDOT STANDARD PLAN F-10.12



DETAIL 1



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SCALE IN FEET

DATE	NO.	REVISION	BY

BRYAN J. HUSHEK, STATE OF WASHINGTON, 26659, REGISTERED PROFESSIONAL ENGINEER
11/12/2021

UPI NO.:	FED. AID PROJ. NO.:
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AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

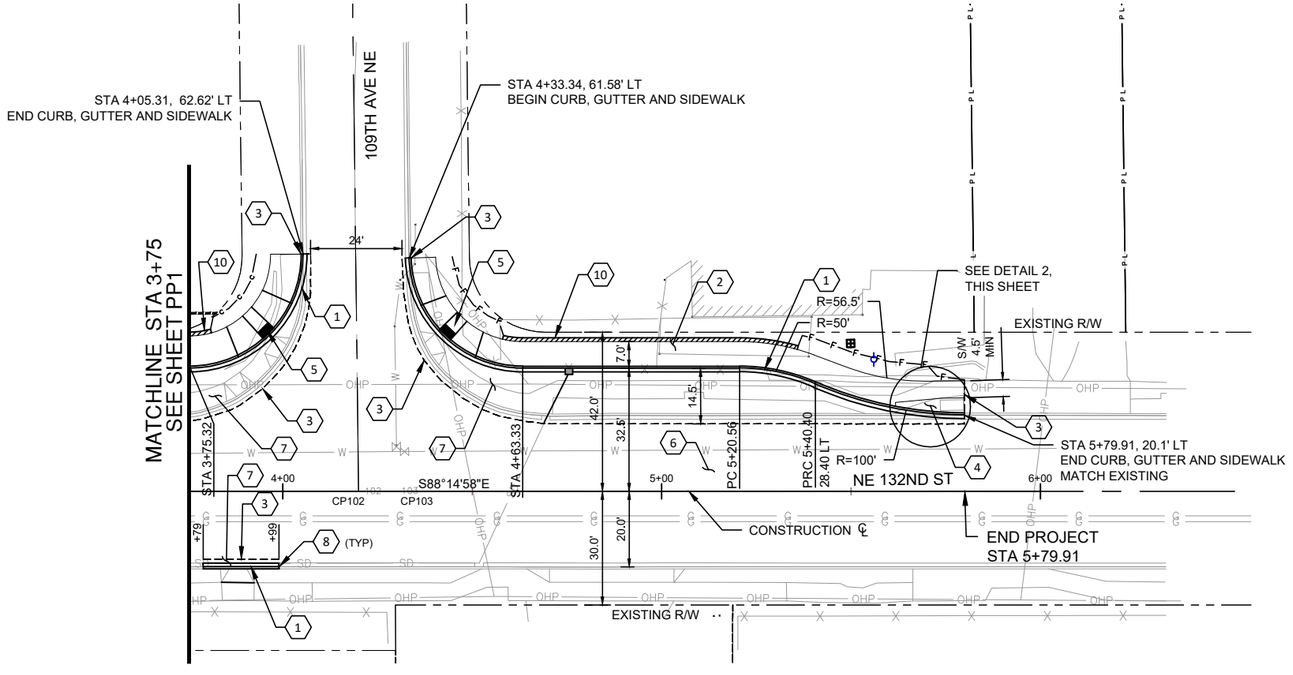
FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS

PLAN AND PROFILE

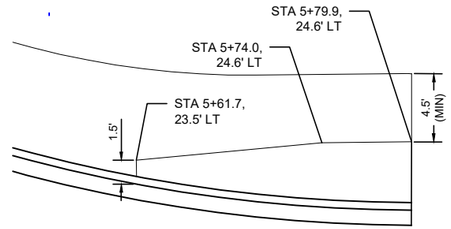
REFERENCE SHEET NO. PP1

SHEET 7 OF 21 SHEETS

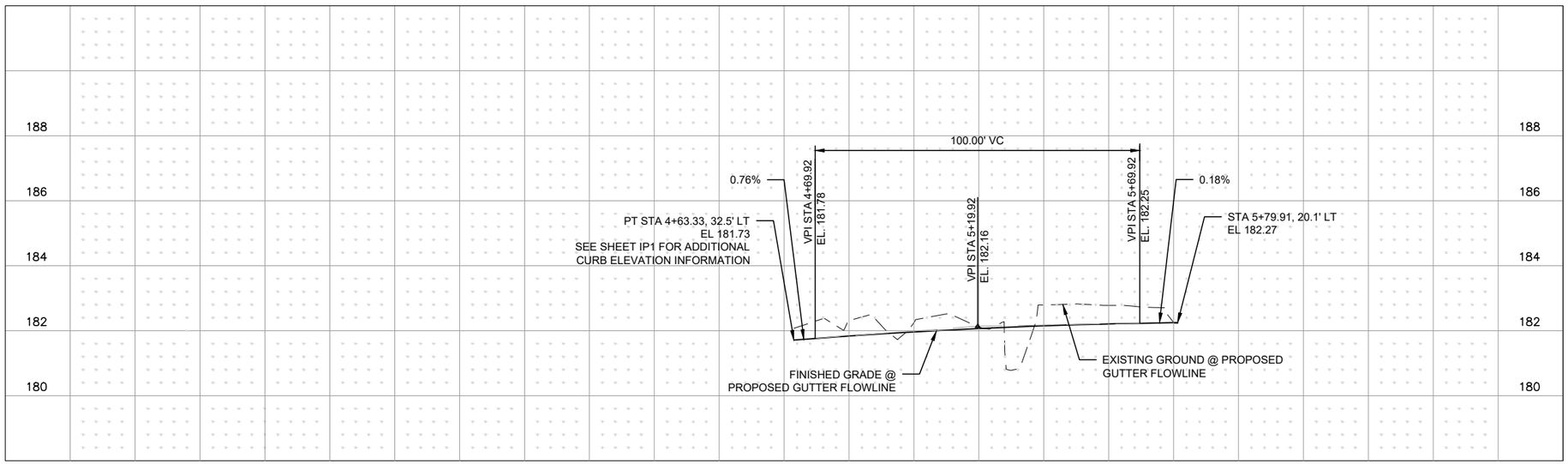


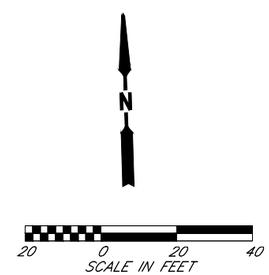
CONSTRUCTION NOTES

1. INSTALL CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF KIRKLAND STANDARD NO. CK-R.23
2. INSTALL CEMENT CONCRETE SIDEWALK PER CITY OF KIRKLAND STANDARD NO. CK-R.23 AND CK-R.08
3. SAWCUT
4. PLANTING STRIP
5. INSTALL PARALLEL CURB RAMP TYPE A PER WSDOT STANDARD PLAN NO. F-40.12, SEE SHEET IP1 FOR STATION AND SIDEWALK DIMENSIONS
6. HMA OVERLAY, SEE SHEET SP1 FOR LIMITS
7. CONSTRUCT ASPHALT PAVEMENT, SEE SHEET RS1 FOR ADDITIONAL INFORMATION
8. MATCH EXISTING CURB AND SIDEWALK ELEVATIONS
10. INSTALL WALL, SEE SHEETS W2 THRU W3



DETAIL 2





DATE	NO.	REVISION	BY

BRYAN J. HUSCHKA — STATE OF WASHINGTON — 26659 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

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AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. _____

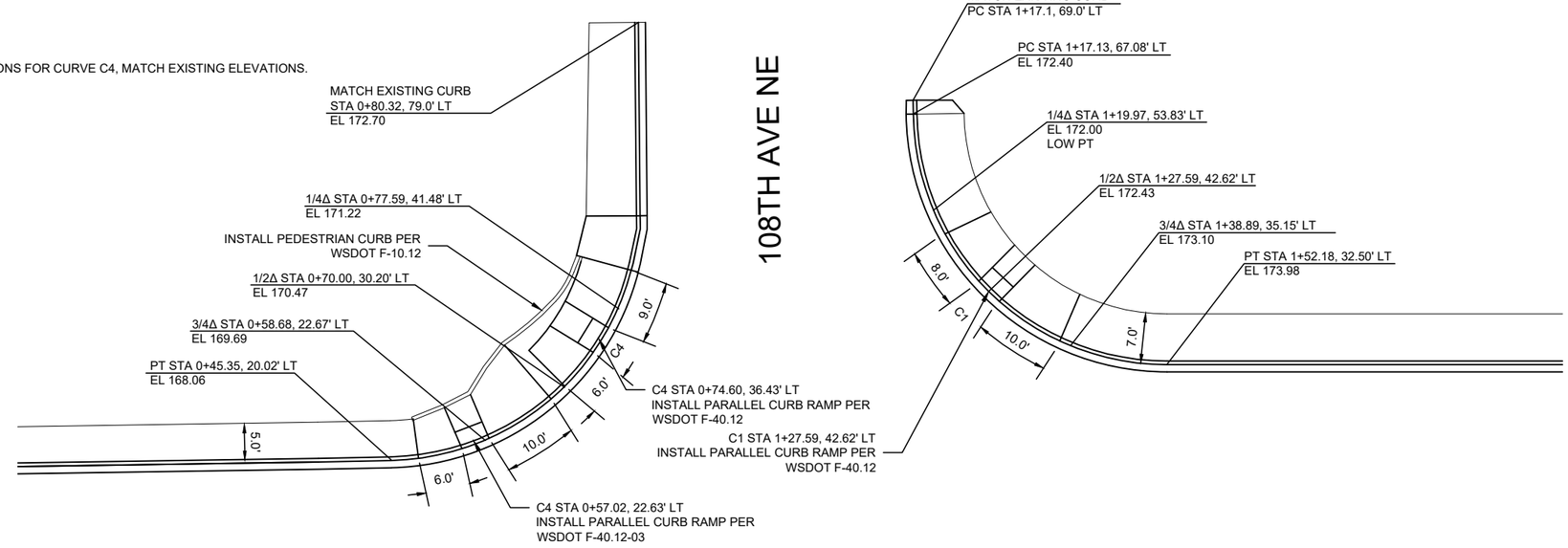
NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS

PLAN AND PROFILE

REFERENCE SHEET NO. PP2

SHEET 8 OF 21 SHEETS

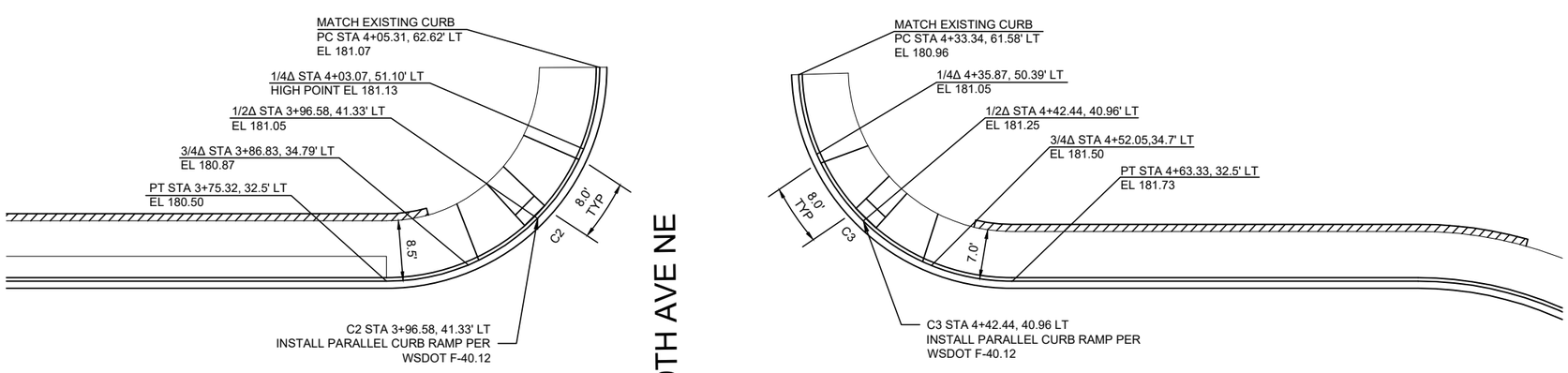
NOTE:
ELEVATIONS FOR CURVE C4, MATCH EXISTING ELEVATIONS.

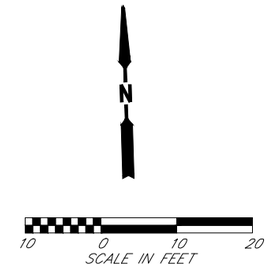


GENERAL NOTES

1. CURB AND GUTTER DIMENSIONS AND CALLOUTS ARE TO THE FACE OF CURB.
2. ELEVATIONS SHOWN ARE ELEVATIONS OF GUTTER FLOW LINES.
3. GUTTER FLOW LINE ELEVATIONS FOR CURVE C4 MATCH EXISTING FLOW LINE ELEVATIONS.

CURVE TABLE			
CURVE #	RADIUS	LENGTH	DELTA ANGLE
C1	35.00	54.54	89°16'31"
C2	30.00	47.24	90°12'48"
C3	30.00	46.21	88°15'19"
C4	35.00	54.73	89°35'14"





DATE	NO.	REVISION	BY

BRYAN L. HUSCHER, STATE OF WASHINGTON, 36026, REGISTERED PROFESSIONAL ENGINEER
11/12/2021

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SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
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CITY OF KIRKLAND
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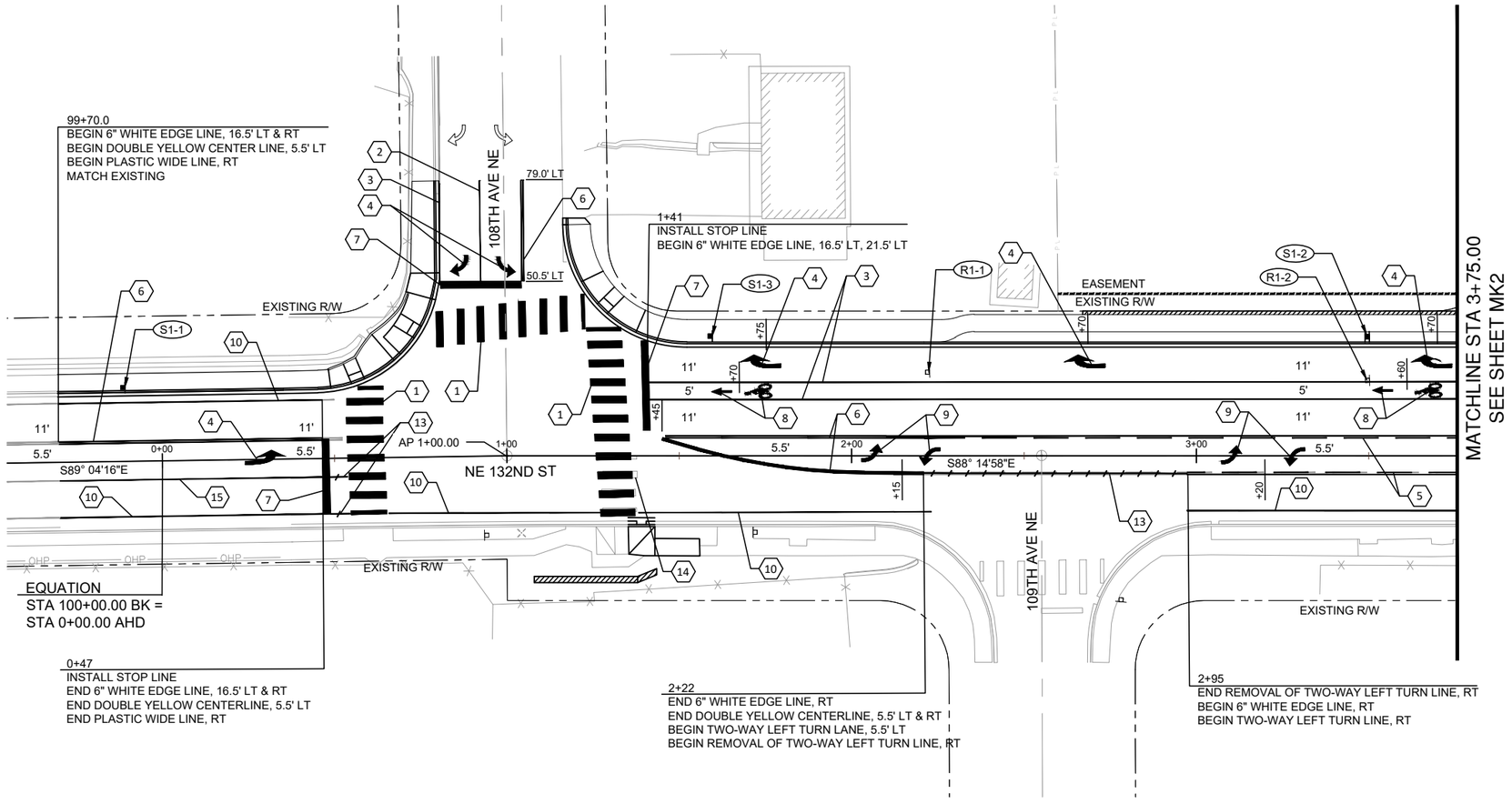
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS
INTERSECTION PLAN

REFERENCE SHEET NO. IP1

SHEET 9 OF 21 SHEETS



CONSTRUCTION NOTES

1. REFRESH OR INSTALL PLASTIC CROSSWALK LINE PER KIRKLAND STD NO. CK-R.28
2. INSTALL PLASTIC WIDE LINE (GORE) PER KIRKLAND STD. NO. CK-R.31
3. INSTALL 6 INCH PAINTED WHITE EDGE LINE PER KIRKLAND STD. NO. CK-R.35
4. INSTALL PLASTIC TRAFFIC ARROW PER WSDOT STANDARD PLAN M-24.40
5. REFRESH OR INSTALL PAINTED YELLOW TWO-WAY LEFT TURN LANE LINES AND MARKERS PER KIRKLAND STD. NO. CK-R.31 AND CK-R.29
6. REFRESH OR INSTALL PAINTED DOUBLE YELLOW CENTER LINES
7. INSTALL PLASTIC STOP LINE PER KIRKLAND STD. CK-R.28
8. INSTALL PLASTIC BICYCLE LANE SYMBOLS PER KIRKLAND STD. NO. CK-R.34
9. INSTALL PLASTIC TRAFFIC ARROW PER KIRKLAND STD. NO. CK-R.30
10. REFRESH PAINTED 6-INCH WHITE EDGE LINE PER KIRKLAND STD NO. CK -R.35
11. INSTALL 6 INCH WHITE BROKEN PAINT LINE PER KIRKLAND STD. NO CK-R.36
12. INSTALL PLASTIC CONFLICT ZONE BIKE LANE PAVEMENT MARKING PER KIRKLAND STD. NO. CK-R.36A AND CK-R.36C
13. REMOVE EXISTING PAINT LINE
14. REMOVE EXISTING PLASTIC CROSSWALK LINE
15. REFRESH PLASTIC WIDE LINE PER KIRKLAND STD. NO. CK-R.31

(RX-X) SIGN REMOVAL
(SX-X) SIGN INSTALLATION

GENERAL NOTES

1. MATCH EXISTING PAVEMENT MARKING DIMENSIONS.
2. ALL LONGITUDINAL MARKINGS SHALL BE SUPPLEMENTED WITH RAISED PAVEMENT MARKERS PER KIRKLAND STD. PLAN R.31.
3. ALL SIGNS TO BE INSTALLED PER CITY OF KIRKLAND STD. PLAN CK-R.43.
4. SEE SHEET MK2 FOR SCHEDULE OF SIGN REMOVALS AND INSTALLATION.
5. SEE SHEET TS1 FOR SIGNS ON SIGNAL ARM.

LEGEND

REMOVE PAINT LINE

N

20 0 20 40
SCALE IN FEET

DATE	NO.	REVISION	BY

BRYAN J. HUSCHKA — STATE OF WASHINGTON — 23609 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

UPI NO.:	FED. AID PROJ. NO.:
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AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

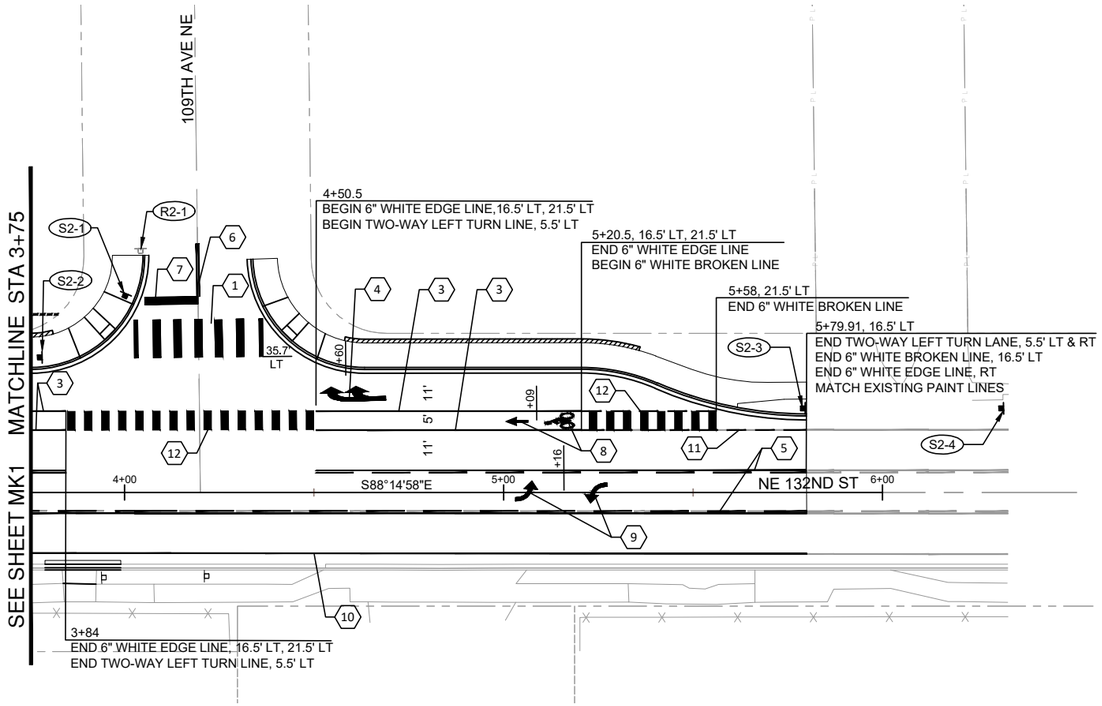
CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS MARKING AND SIGNING PLAN

REFERENCE SHEET NO. MK1

SHEET 10 OF 21 SHEETS



CONSTRUCTION NOTES

1. REFRESH OR INSTALL PLASTIC CROSSWALK LINE PER KIRKLAND STD NO. CK-R.28
2. INSTALL PLASTIC WIDE LINE (GORE) PER KIRKLAND STD. NO. CK-R.31
3. INSTALL 6 INCH PAINTED WHITE EDGE LINE PER KIRKLAND STD NO. CK-R.35
4. INSTALL PLASTIC TRAFFIC ARROW PER WSDOT STANDARD PLAN M-24.40
5. REFRESH OR INSTALL PAINTED YELLOW TWO-WAY LEFT TURN LANE LINES AND MARKERS PER KIRKLAND STD. NO. CK-R.31 AND CK-R.29
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10. REFRESH PAINTED 6-INCH WHITE EDGE LINE PER KIRKLAND STD. NO. CK-R.35
11. INSTALL 6 INCH WHITE BROKEN PAINT LINE PER KIRKLAND STD. NO CK-R.36
12. INSTALL PLASTIC CONFLICT ZONE BIKE LANE PAVEMENT MARKING PER KIRKLAND STANDARDS NO. CK-R.36A AND CK-R.36C
13. REMOVE EXISTING PAINT LINE

(RX-X) SIGN REMOVAL
(SX-X) SIGN INSTALLATION

GENERAL NOTES

1. MATCH EXISTING PAVEMENT MARKING DIMENSIONS.
2. ALL LONGITUDINAL MARKINGS SHALL BE SUPPLEMENTED WITH RAISED PAVEMENT MARKERS PER KIRKLAND STD. PLAN R.31.
3. ALL SIGNS TO BE INSTALLED PER CITY OF KIRKLAND STD. PLAN CK-R.43.
4. SEE SHEET TS1 FOR SIGNS ON SIGNAL ARM.

LEGEND

REMOVE PAINT LINE

SIGN REMOVAL SCHEDULE

SIGN NO.	SIGN DESIGNATION	SIGN DESCRIPTION	STATION	OFFSET	SIGN WIDTH (X)	SIGN HEIGHT (Y)	VERTICAL CLEARANCE	REMARKS
R1-1	BUS STOP	Route # 225, #257	2+22.44	24.15	EX.	EX.	EX.	COORDINATE REMOVAL WITH KING CO. METRO
R1-2	R9-2	CROSS ONLY AT CROSSWALK	3+50.00	21.93	EX.	EX.	EX.	EAST FACING
	R9-2	CROSS ONLY AT CROSSWALK	3+50.00	21.93	EX.	EX.	EX.	WEST FACING
R2-1	R1-1	STOP SIGN	4+02.28	63.65	EX.	EX.	EX.	

SIGN INSTALLATION SCHEDULE

SIGN NO.	SIGN DESIGNATION	SIGN DESCRIPTION	STATION	OFFSET	SIGN WIDTH (X)	SIGN HEIGHT (Y)	VERTICAL CLEARANCE	REMARKS
S1-1	CUSTOM	BUS Route # 225, #257	99+89.00	21.5	BY OTHERS	BY OTHERS	BY OTHERS	COORDINATE RELOCATION WITH KING CO. METRO (SIGN PROVIDED)
S1-2	R9-2	CROSS ONLY AT CROSSWALK	3+50.00	34	12"	18"	7'	EAST FACING NEW SIGN POST
	R9-2	CROSS ONLY AT CROSSWALK	3+50.00	34	12"	18"		WEST FACING NEW SIGN POST
S1-3	SPECIAL	CAUTION HIDDEN DRIVEWAYS	1+60.00	34.25	36"	30"	7'	NEW SIGN POST
S2-1	R1-1	STOP SIGN	4+01.00	51.3	30"	30"	7'	NEW SIGN POST
S2-2	R3-7	RIGHT LANE MUST TURN RIGHT	3+75.00	34	30"	30"	7.5'	NEW SIGN POST
	R3-17	BIKE LANE			30"	24"	5'	PLACE DIRECTLY BELOW RIGHT TURN SIGN
S2-3	R4-4	RIGHT TURN/YIELD TO BIKE LANE	5+79.00	21.5	36"	30"	7'	NEW SIGN POST
	R3-5R	RIGHT TURN ONLY ARROW			24"	30"		SEE SHEET TS3 SIGN ON SIGNAL ARM
S2-4	W20-901	TRAFFIC REVISION AHEAD	6+30.00	21.5	30"	30"	7'	KEEP COVERED UNTIL RIGHT TURN LANE IS OPEN

CAUTION
HIDDEN
DRIVEWAY

SPECIAL
4B LETTERS
TYPE 2 ARROW
BLACK/YELLOW
36"X30"

N

20 0 20 40
SCALE IN FEET

DATE	NO.	REVISION	BY

BRIAN J. HUSCHKA — STATE OF WASHINGTON — 19526699 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

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FUNDING NO. _____

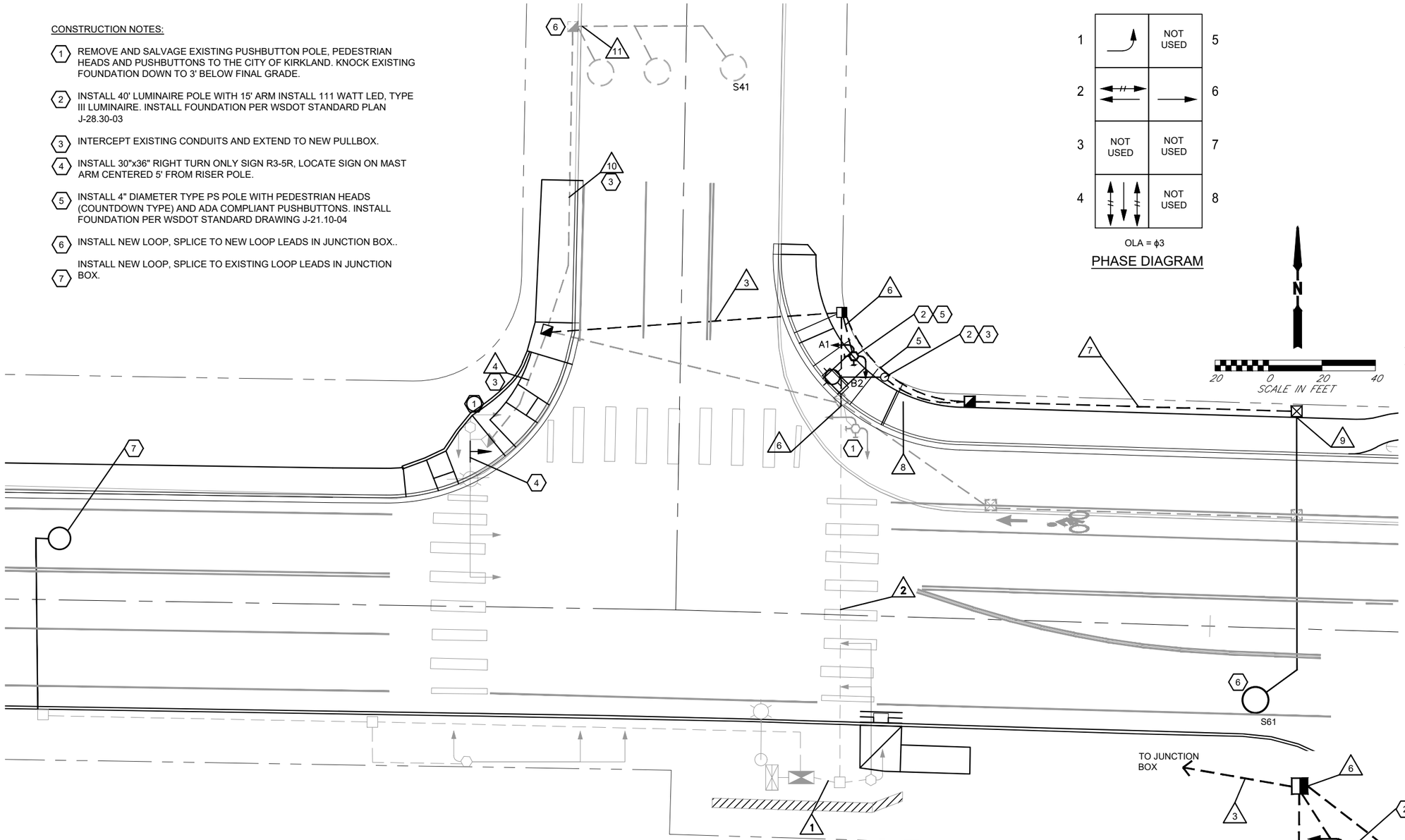
NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS MARKING AND SIGNING PLAN

REFERENCE SHEET NO. MK2

SHEET 11 OF 21 SHEETS

CONSTRUCTION NOTES:

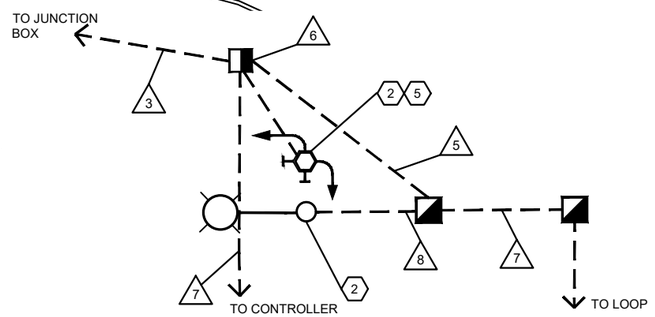
1. REMOVE AND SALVAGE EXISTING PUSHBUTTON POLE, PEDESTRIAN HEADS AND PUSHBUTTONS TO THE CITY OF KIRKLAND. KNOCK EXISTING FOUNDATION DOWN TO 3' BELOW FINAL GRADE.
2. INSTALL 40' LUMINAIRE POLE WITH 15' ARM INSTALL 111 WATT LED, TYPE III LUMINAIRE. INSTALL FOUNDATION PER WSDOT STANDARD PLAN J-28.30-03
3. INTERCEPT EXISTING CONDUITS AND EXTEND TO NEW PULLBOX.
4. INSTALL 30"x36" RIGHT TURN ONLY SIGN R3-5R, LOCATE SIGN ON MAST ARM CENTERED 5' FROM RISER POLE.
5. INSTALL 4" DIAMETER TYPE PS POLE WITH PEDESTRIAN HEADS (COUNTDOWN TYPE) AND ADA COMPLIANT PUSHBUTTONS. INSTALL FOUNDATION PER WSDOT STANDARD DRAWING J-21.10-04
6. INSTALL NEW LOOP, SPLICE TO NEW LOOP LEADS IN JUNCTION BOX..
7. INSTALL NEW LOOP, SPLICE TO EXISTING LOOP LEADS IN JUNCTION BOX.



PHASE DIAGRAM

TRAFFIC SIGNAL LEGEND

EXISTING	NEW	
		VEHICLE SIGNAL HEADS
		PEDESTRIAN SIGNAL HEAD
		SIGN
		VIDEO DETECTION CAMERA
		LUMINAIRE AND ARM
		UTILITY POLE
		SIGNAL POLE
		CONTROLLER CABINET
		SERVICE CABINET
		JUNCTION BOX TYPE 1
		JUNCTION BOX TYPE 2
		JUNCTION BOX TYPE 8
		SIGN
		CONDUIT
		RIGHT-OF-WAY
		TYPE 3 INDUCTION LOOP
		WIRE NOTE
		CONSTRUCTION NOTE



ENLARGED NORTHEAST QUADRANT

C:\Projects\Kirkland 132nd St\12_TS 1.dwg Nov 12, 2021 - 1:51pm

DATE	NO.	REVISION	BY

BRYAN J. HUSCHKA — STATE OF WASHINGTON — 26639 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

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FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS

TRAFFIC SIGNAL MODIFICATION

REFERENCE SHEET NO. TS1

SHEET 12 OF 21 SHEETS

WIRING MODIFICATION SCHEDULE

RUN NO.	CONDUIT SIZE	EXISTING CONDUCTORS	NEW CONDUCTORS	COMMENTS
1	Ex. 2”	1 -12CT, SMFO, 1-CCC, 1 -#8	--	KEEP EXISTING WIRING
	Ex. 3”	6 -5C, 3 -Video, 6 -2C(s)**, 1 -#8	7 -5C, 3 Video, 6 -2C(s)**, 1 -#8	REPLACE EXISTING WIRING
	Ex. 3”	3 -2C(s), 1-#8	3 -2C(s), 1-#8	REPLACE EXISTING WIRING
	Ex. 2”	3 -#6	--	KEEP EXISTING WIRING
2	Ex. 2.5”	3 -5C, 1-#8, 1-Video,	3 -5C, 1-#8, 1-Video,	REPLACE EXISTING WIRING
	Ex. 2”	3 -#8	3 -#8	REPLACE EXISTING WIRING
	Ex. 2”	4 -2C(s)**, 2 -2C(s)	4 -2C(s)**, 2 -2C(s)	REPLACE EXISTING WIRING
3	Ex. 3”	2 -5C, 1-#8, 1-Video, 2 -2 -C(s)**, 1 -2C	2 -5C, 1-#8, 1-Video, 2 -2 -C(s)**, 1-2C	REPLACE EXISTING WIRING
	Ex. 2”	3 -#8	3 -#8	REPLACE EXISTING WIRING
4	Ex. 2.5”	3 -5C, 1-#8, 1-Video, 2 -2c(s)**, 1 -2C	3 -5C, 1-#8, 1-Video, 2-2c(s)**, 1-2C	REPLACE EXISTING WIRING
	Ex. 2”	3 -#8	3 -#8	REPLACE EXISTING WIRING
5	2” PVC	--	1 -5C, 3-#6	CONTRACTOR IS TO INSURE THAT CONDUIT IS PLACED WITHIN EXISTING R/W
6	2” PVC	--	1 -5C, 2 -2C(s)**	TO NEW PED POLE
	2” PVC			
7	2” PVC	--	1-2C	REPLACE EXISTING WIRING
8	2” PVC		3-#6	LIGHTING
9		2-#14	--	SPLICE TO EXISTING LOOP WIRE IN JUNCTION BOX
10	Ex. 2”	2-2C	--	REPLACE EXISTING WIRING
11		4-#14	--	SPLICE TO EXISTING LOOP WIRE IN JUNCTION BOX

** TWO CONDUCTOR SHIELDED CABLE BETWEEN APS PUSHBUTTON AND APS CONTROLLER INSIDE CABINET.

PEDESTRIAN PUSHBUTTON MOUNTING SCHEDULE

PPB#	LOCATION 0° = NORTH ARROW	PHASE	SIGN ARROW DIRECTION
A1	180	2	LEFT
B2	270	4	RIGHT

GENERAL NOTES:

1 ALL CONDUITS MODIFIED FOR NEW JUNCTION BOX INSTALLATIONS SHALL HAVE NEW BELL ENDS OR END BUSHINGS INSTALLED. THE CONTRACTOR SHALL MAINTAIN AND PROTECT EXISTING CABLING.

2 THE CONSTRUCTION PLANS MAY NOT SHOW ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL INVESTIGATE UTILITIES PRIOR TO ANY EXCAVATION, TRENCHING OR BORING TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES. ALL EXISTING UTILITIES SHALL BE LOCATED AND MARKED IN THE FIELD PRIOR TO PERFORMING ANY UNDERGROUND WORK. UTILITY COMPANIES SHALL BE CONTACTED THROUGH THE ENGINEER IF PROPOSED CONSTRUCTION CONFLICTS WITH EXISTING UTILITIES.

3 ALL CONDUITS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR, CONDUIT ROUTES ARE SHOWN SCHEMATICALLY AND SHALL BE LOCATED WITHIN THE EXISTING RIGHT-OF-WAY.

4 WHEN EXISTING JUNCTION BOXES ARE REPLACED, OR CONDUITS ADJUSTED IN EXISTING BOXES, THE CONTRACTOR SHALL REMOVE ALL SOIL AND DEBRIS IN AND AROUND THE BOX AND RESTORE A GRAVEL PAD UNDER THE JUNCTION BOX AS SHOWN IN WSDOT STANDARD PLAN J40.10-03. THE AREA AROUND THE JUNCTION BOX SHALL BE RESTORED TO EXISTING CONDITIONS.

5 IF AN EXISTING PULL ROPE OR PULL TAPE IS USED FOR INSTALLING NEW CABLING, THE NEW PULL ROPE OR TAPE SHALL BE REPLACED WITH A NEW PULL ROPE OR TAPE. THIS SHALL BE CONSIDERED INCIDENTAL TO THE CABLE INSTALLATION.

6 THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF KIRKLAND PROJECT ENGINEER A MINIMUM OF 10 WORKING DAYS IN ADVANCE OF ALL SIGNAL CABINET WORK.

7 PLACEMENT OF SYSTEM AND UPSTREAM LOOPS ARE SHOWN SCHEMATICALLY. CONTRACTOR TO CONFIRM PLACEMENT DOES NOT CONFLICT WITH EXISTING MANHOLES, DRAINAGE INLETS, OR OTHER METALLIC OBJECTS. CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PLACEMENT IF ANY CONFLICTS ARE IDENTIFIED.

8. CONDUIT RUNS NOT TAGGED WITH A CONDUIT RUN NUMBER ARE NOT IMPACTED BY THIS MODIFICATION.

HEADS
A1, B2

SIGNAL DISPLAYS

SIGNAL DISPLAY NOTES:

1. ALL PEDESTRIAN HEADS SHALL BE THE LED TYPE.
2. PEDESTRIAN HEADS ON THE PS POLE SHALL UTILIZE TOP MOUNT TYPE MOUNTING.

DATE	NO.	REVISION	BY

BRYAN V. HUSCHKA — STATE OF WASHINGTON — 26639 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM:	VERT. DATUM:
DESIGNED BY: DM	DRAWN BY: HL

AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

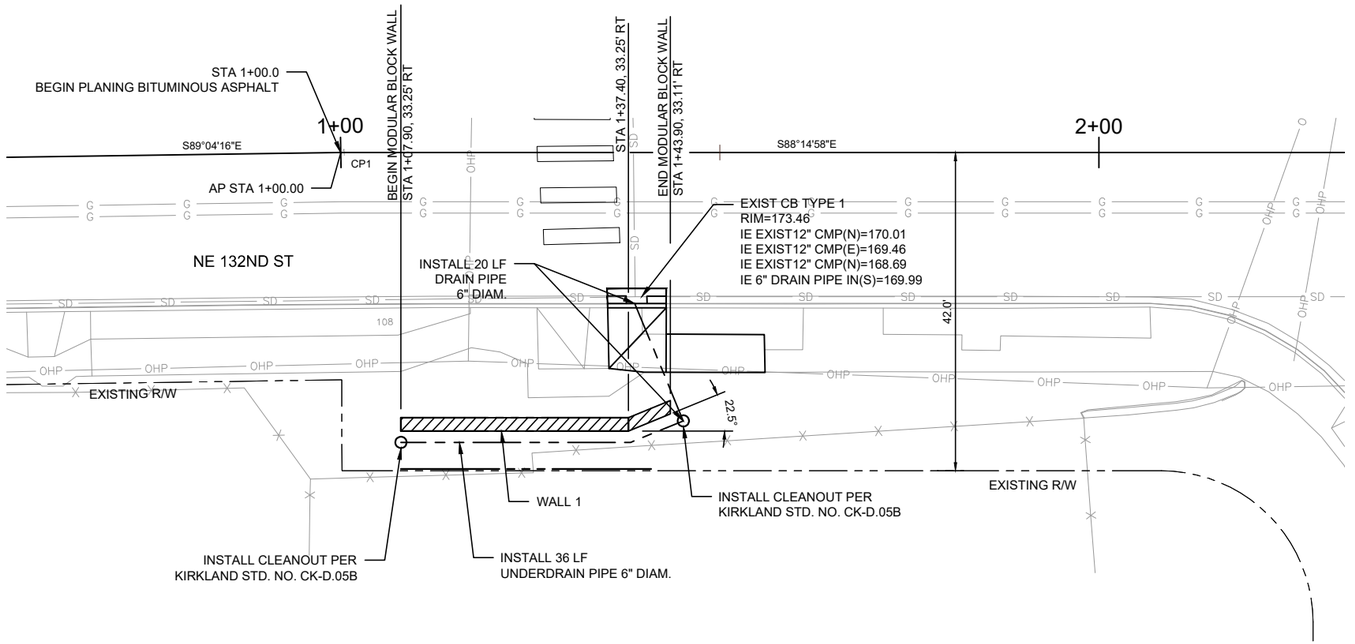
FUNDING NO. _____

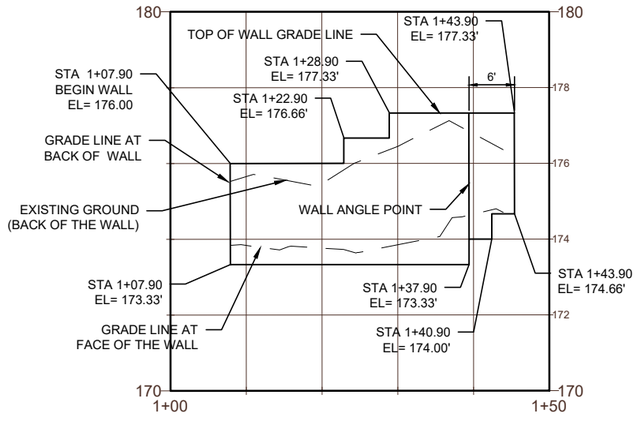
NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS

TRAFFIC SIGNAL MODIFICATION

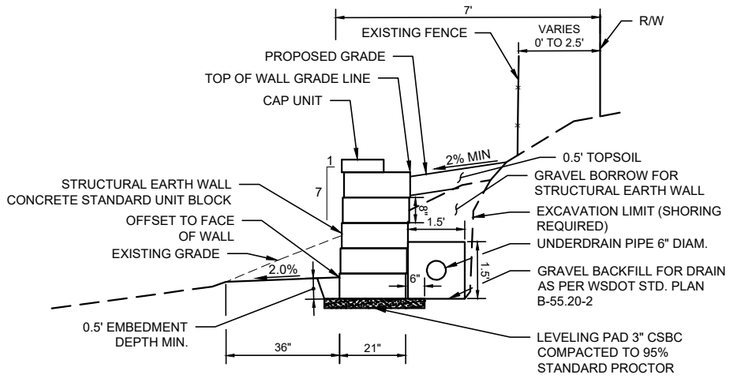
REFERENCE SHEET NO. TS2

SHEET 13 OF 21 SHEETS





WALL 1 PROFILE



TYPICAL SECTION
MODULAR BLOCK WALL

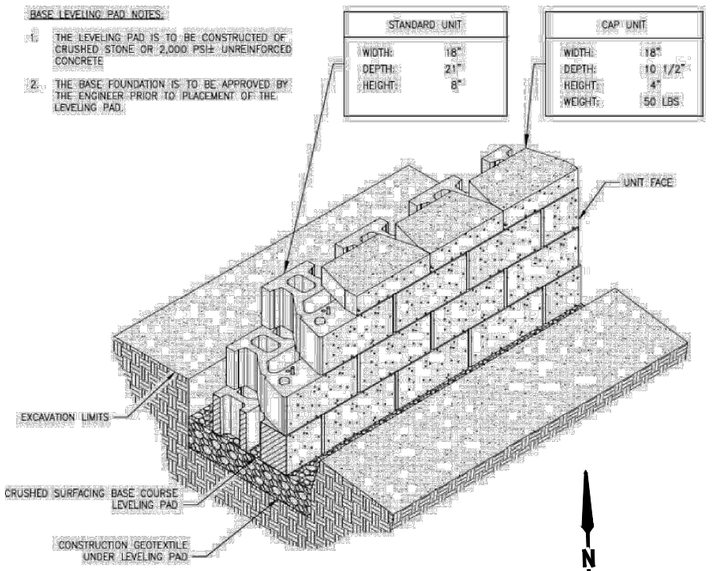
NOTE:
MODULAR BLOCK WALLS ARE PAID FOR UNDER THE BID ITEM, "STRUCTURAL EARTH WALL"

BASE LEVELING PAD NOTES:

1. THE LEVELING PAD IS TO BE CONSTRUCTED OF CRUSHED STONE OR 2,000 PSI± UNREINFORCED CONCRETE
2. THE BASE FOUNDATION IS TO BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF THE LEVELING PAD.

STANDARD UNIT	
WIDTH:	18"
DEPTH:	21"
HEIGHT:	8"

CAP UNIT	
WIDTH:	18"
DEPTH:	10 1/2"
HEIGHT:	4"
WEIGHT:	50 LBS



WALL 1 DETAIL

DATE	NO.	REVISION	BY

BRYAN L. HUSCHKE — STATE OF WASHINGTON — 40284 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM:	VERT. DATUM:
DESIGNED BY: RWM	DRAWN BY: HL

AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

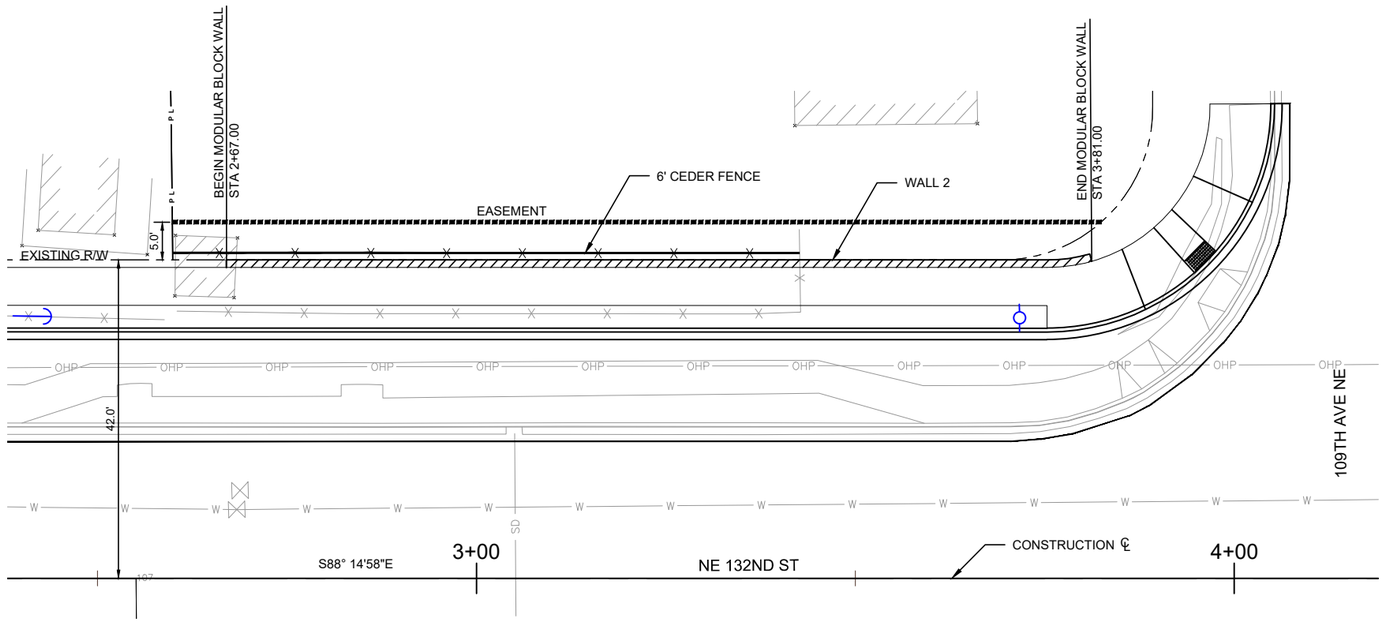
CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

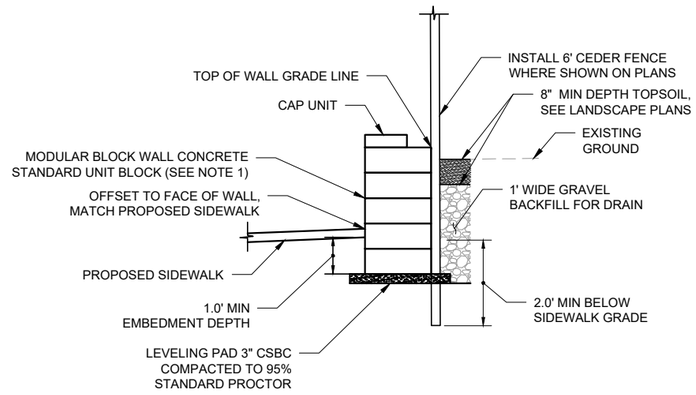
FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS
WALL 1 PLAN AND PROFILE, SECTION, AND DETAIL

REFERENCE SHEET NO.: W1

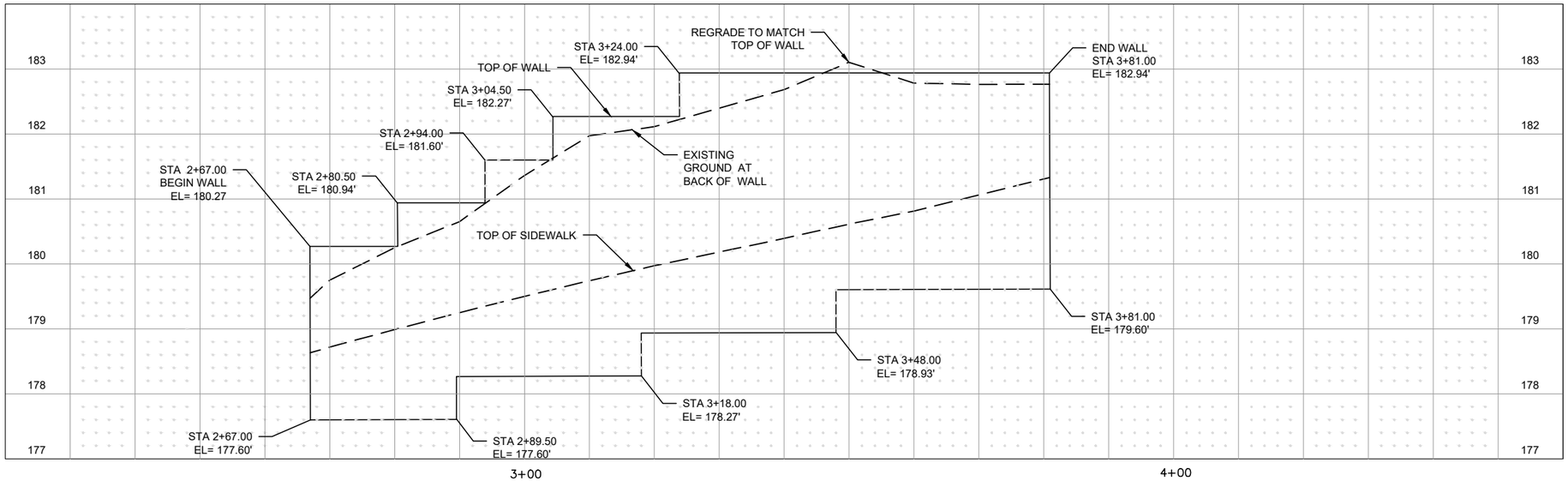
SHEET 14 OF 21 SHEETS





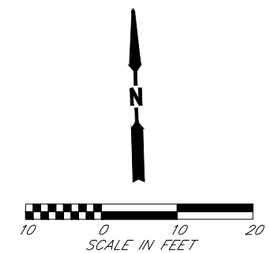
TYPICAL SECTION
MODULAR BLOCK WALL 2

NOTE:
MODULAR BLOCK WALLS ARE PAID FOR UNDER
THE BID ITEM, "STRUCTURAL EARTH WALL"



GENERAL NOTES

1. WALL MUST BE WITHIN ROAD R/W. 12 INCH DEEP MODULAR BLOCKS SHALL BE STACKED NEAR VERTICAL.
2. RIGHT-OF-WAY LINE IS 1 FOOT BEHIND SIDEWALK.
3. INSTALL 6 FOOT CEDER FENCE 0.5 FEET BEYOND RIGHT-OF-WAY (CENTER OF POSTS).



DATE	NO.	REVISION	BY

BRYAN J. HUSCHER — STATE OF WASHINGTON — 24536 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM:	VERT. DATUM:
DESIGNED BY: RWM	DRAWN BY: HL

AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

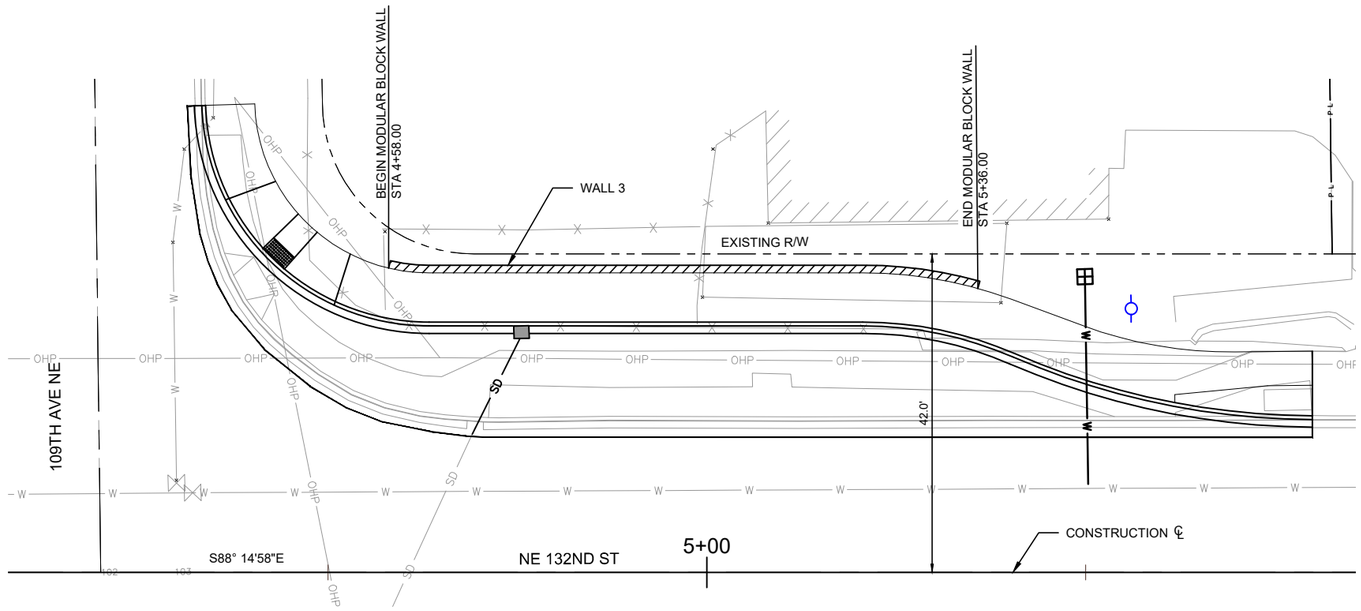
CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

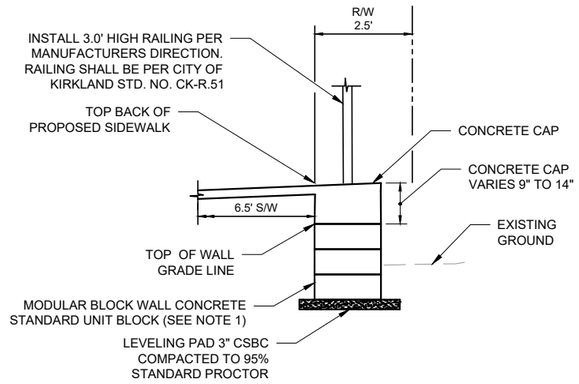
FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS WALL 2 PLAN AND PROFILE AND SECTION

REFERENCE SHEET NO. W2

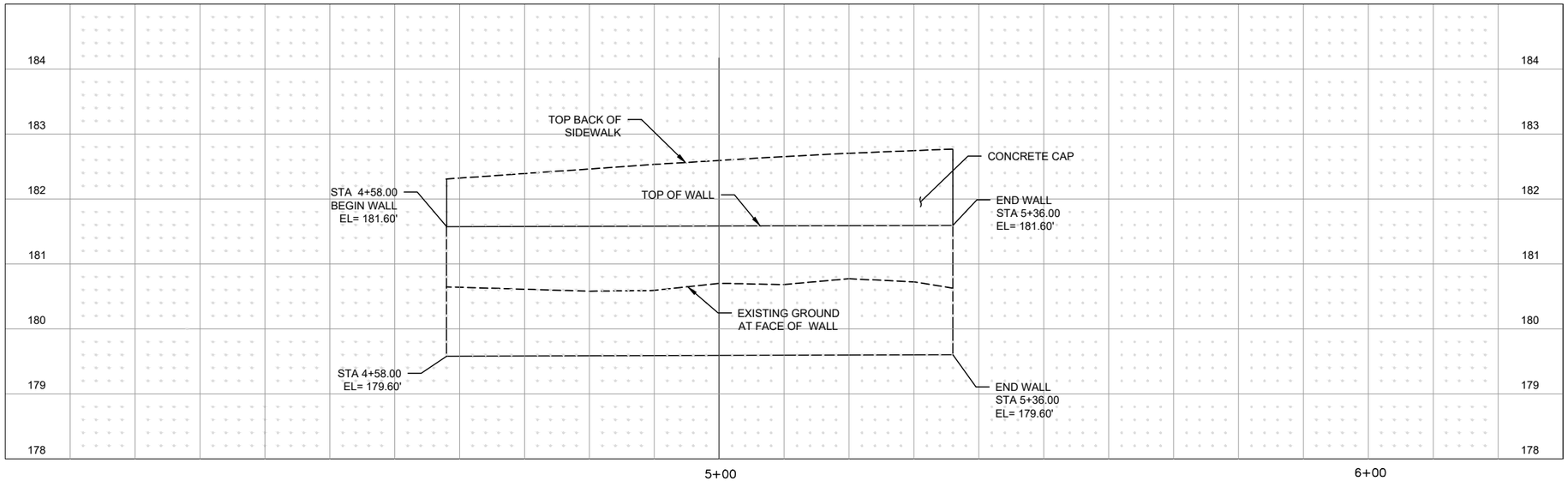
SHEET 15 OF 21 SHEETS





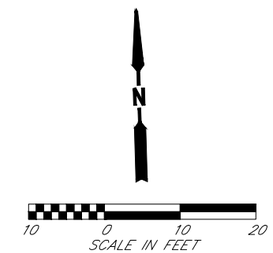
TYPICAL SECTION
MODULAR BLOCK WALL 3

NOTE:
MODULAR BLOCK WALLS ARE PAID FOR UNDER THE BID ITEM, "STRUCTURAL EARTH WALL"



GENERAL NOTES

1. WALL MUST FIT AND BE CONSTRUCTED WITHIN ROAD R/W. MODULAR BLOCKS CAN BE UP TO 18" DEEP.
2. SIDEWALK AND CONCRETE CAP SHALL BE POURED AT THE SAME TIME WITH NO CONSTRUCTION JOINT BETWEEN THEM.



DATE	NO.	REVISION	BY

BRYAN J. HUSCHER — STATE OF WASHINGTON — 24826 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM:	VERT. DATUM:
DESIGNED BY: RWM	DRAWN BY: HL

AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS WALL 3 PLAN AND PROFILE AND SECTION

REFERENCE SHEET NO. W3

SHEET 16 OF 21 SHEETS

PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC/COMMON NAME	SIZE/REMARKS
		TREES	
	5	Amelanchier x grandiflora 'Autumn Brilliance/ AUTUMN BRILLIANCE SERVICEBERRY	2" CAL; MIN 6' BRANCHING HEIGHT; B&B/FABRIC BAG; FULL, WELL BRANCHED & WELL ROOTED; STRAIGHT CENTRAL LEADER & SINGLE TRUNK; SYMMETRICAL BRANCHING HABIT
	2	Acer circinatum VINE MAPLE	2" CAL; 7' TO 8' HT; B&B/FABRIC BAG; FULL, WELL BRANCHED & WELL ROOTED; MULTI-TRUNKED, MIN 3 TRUNKS; SYMMETRICAL BRANCHING HABIT
	1	Thuja standishii x plicata/ GREEN GIANT ARBORVITAE	2" CAL; 7' TO 8' HT; B&B/FABRIC BAG; FULL, WELL BRANCHED & WELL ROOTED; STRAIGHT CENTRAL LEADER & SINGLE TRUNK; SYMMETRICAL BRANCHING HABIT
		OTHER	
	320 SY	SEED LAWN INSTALLATION	SEE SPECS
	51 SY	BARK OR WOOD CHIP MULCH, 3" DEPTH	SEE SPECS

PLANTING LEGEND

DETAIL IDENTIFICATION
SHEET IDENTIFICATION

EX POLE

EX DECIDUOUS TREE

EX CONIFER TREE

EX FENCE

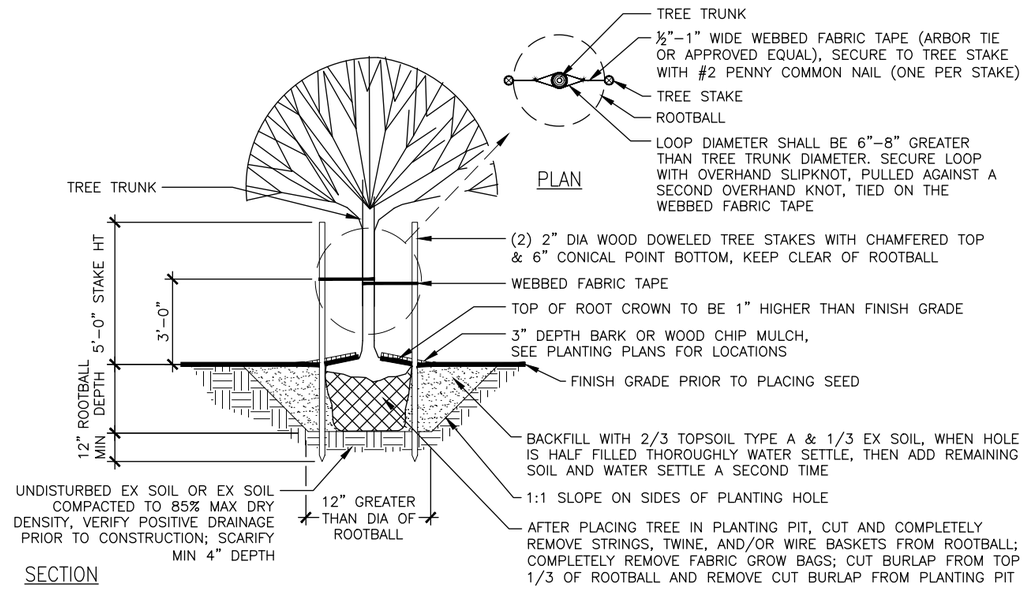
PLANTING NOTES

1. ANY DISCREPANCIES WITH THE DWGS AND/OR SPECS & SITE CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE ENG PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. ENG MUST INSPECT PLANT MATERIALS AND STAKING LOCATIONS PRIOR TO INSTALLATION TO ASSURE THE APPROPRIATE PLANT SCHEDULE AND PLANT CHARACTERISTICS ARE MET.
3. ALL PLANTS MUST RECEIVE AN ADEQUATE SUPPLY OF WATER, SEE SPECIFICATION 8-02. CONTRACTOR TO PROVIDE TREE WATERING BAGS FOR EACH STREET TREE AND WATER FOR ESTABLISHMENT PER SPEC 8-02.
4. TREE LOCATIONS SHOWN ON PLANTING PLANS (SHEETS LP2 TO LP3) ARE APPROXIMATE; IF FIELD ADJUSTMENTS ARE NECESSARY THE FOLLOWING MIN SETBACKS FOR CENTERLINE OF TREE TRUNKS TO EDGE OF DRIVEWAY, FACE OF CURB OR INTERSECTION AND TO CENTER OF ALL OTHERS SHOWN MUST APPLY:

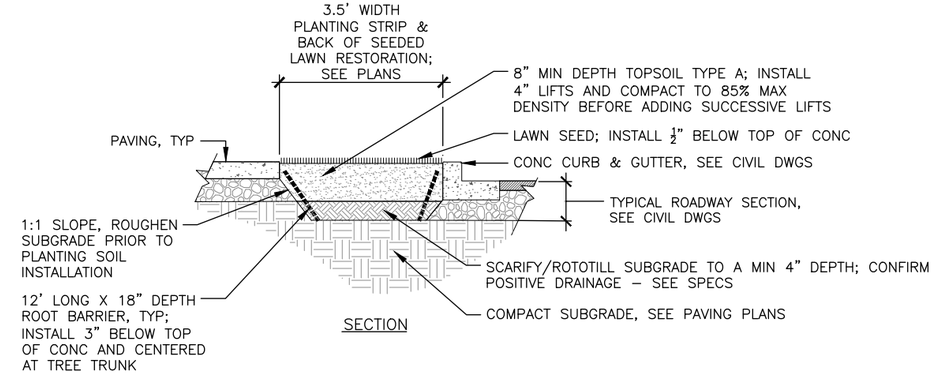
A.	STREET LIGHTS	20'
B.	INTERSECTIONS	30'
C.	INTERSECTIONS W/ STOP SIGN	50'
D.	UNDERGROUND UTILITY LINES	5'
E.	OTHER EXISTING TREES	20'
F.	FACE OF CURB	1.5'

PLANTING ABBREVIATIONS

#/NO	NUMBER	℄	CENTER LINE	OC	ON CENTER
%	PERCENT	CLR	CLEAR	PREP	PREPARATION
&	AND	CONC	CONCRETE	QTY	QUANTITY
@	AT	DWGS	DRAWINGS	SCH	SCHEDULE
APPROX	APPROXIMATE	EA	EACH	SPEC	SPECIFICATION
B&B	BALLED AND BURLAPPED	MAX	MAXIMUM	SYM	SYMBOL
CAL	CALIPER	MIN	MINIMUM	TYP	TYPICAL
				WITH	WITH



1 DECIDUOUS TREE PLANTING
NOT TO SCALE



2 SOIL PREPARATION IN SEED LAWN AREAS
NOT TO SCALE

DATE	NO.	REVISION	BY

STATE OF WASHINGTON MERIT OVIIR NO. 1998 EXP. 10/10/2021 LICENSED LANDSCAPE ARCHITECT

UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM:	VERT. DATUM:
DESIGNED BY: AL	DRAWN BY: GK

AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

HBB
LANDSCAPE ARCHITECTURE
2101 4th Ave, Suite 1800
SEATTLE, WA 98121
206.682.3051 phone
206.682.3245 fax

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS

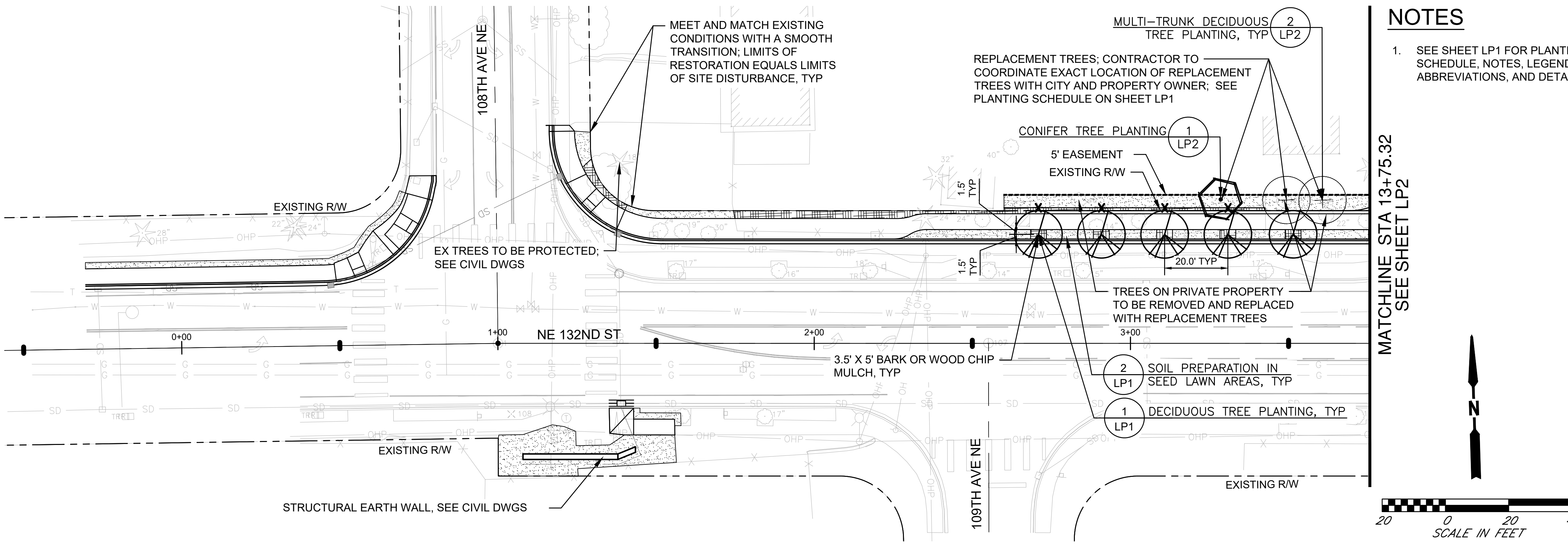
PLANTING SCHEDULE, NOTES, LEGEND ABBREVIATIONS AND DETAILS

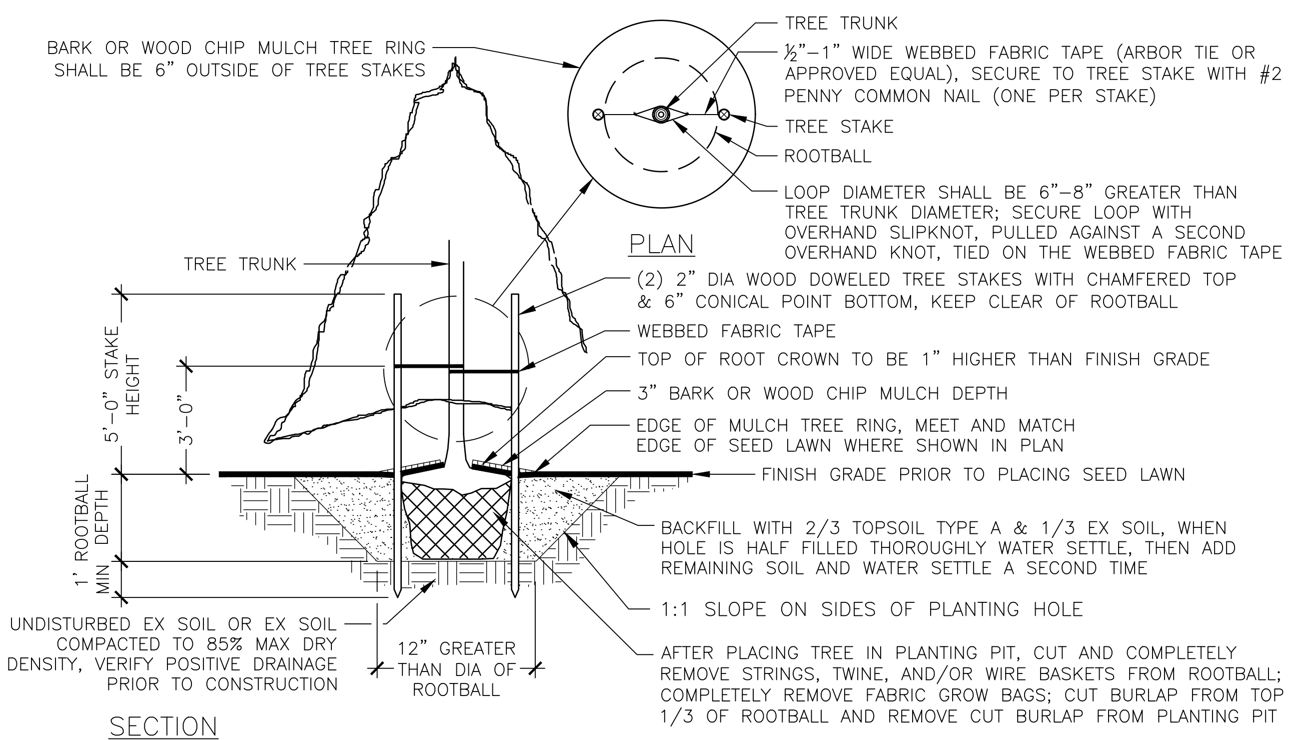
REFERENCE SHEET NO. LP1

SHEET 17 OF 21 SHEETS

NOTES

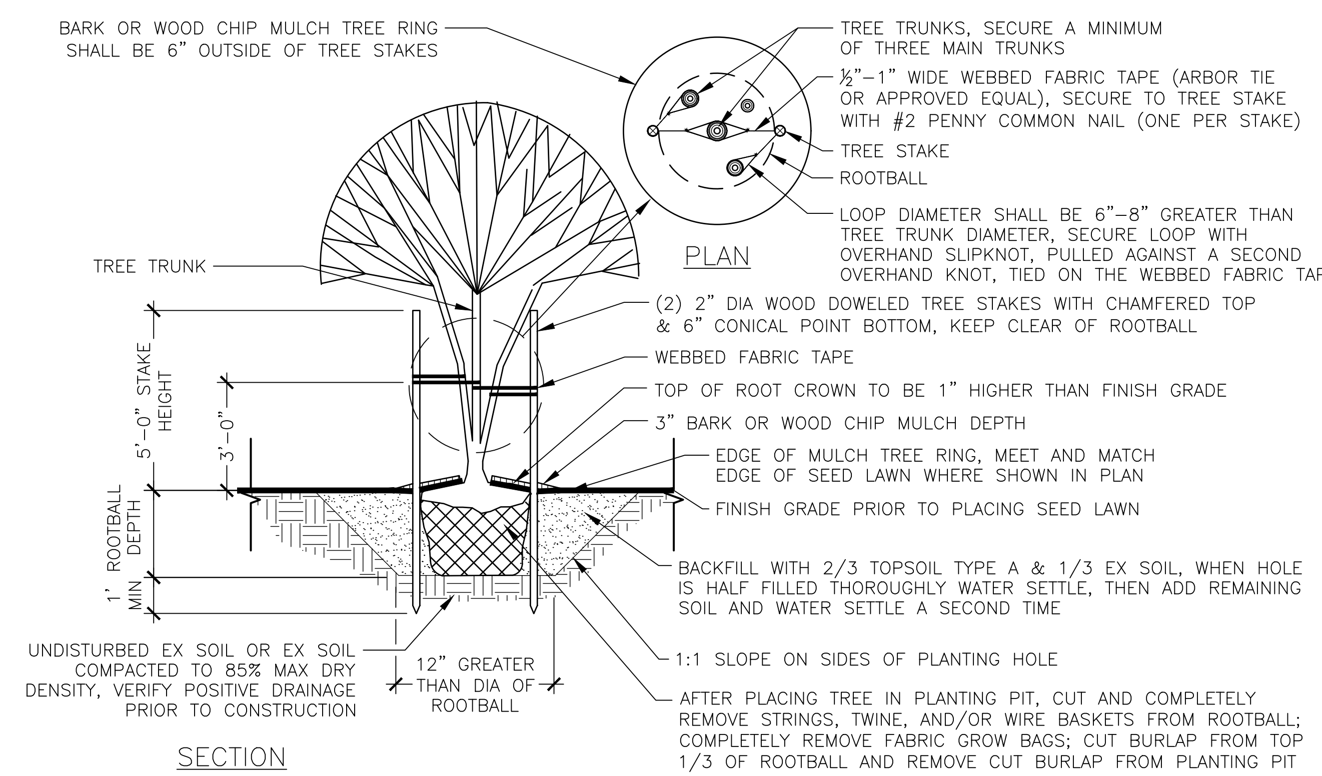
1. SEE SHEET LP1 FOR PLANTING SCHEDULE, NOTES, LEGEND, ABBREVIATIONS, AND DETAILS.





1 CONIFER TREE PLANTING

NOT TO SCALE



2 MULTI-TRUNK DECIDUOUS TREE PLANTING

NOT TO SCALE

DATE	NO.	REVISION	BY

STATE OF WASHINGTON — MERIT OVIIR — LICENSED LANDSCAPE ARCHITECT — NO 1396 EXP. 03/20..

UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM:	VERT. DATUM:
DESIGNED BY: AL	DRAWN BY: GK

AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

HBB LANDSCAPE ARCHITECTURE
2101 4th Ave, Suite 1800
SEATTLE, WA 98121
206.682.3051 phone
206.682.3245 fax

CITY OF KIRKLAND WASHINGTON
CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

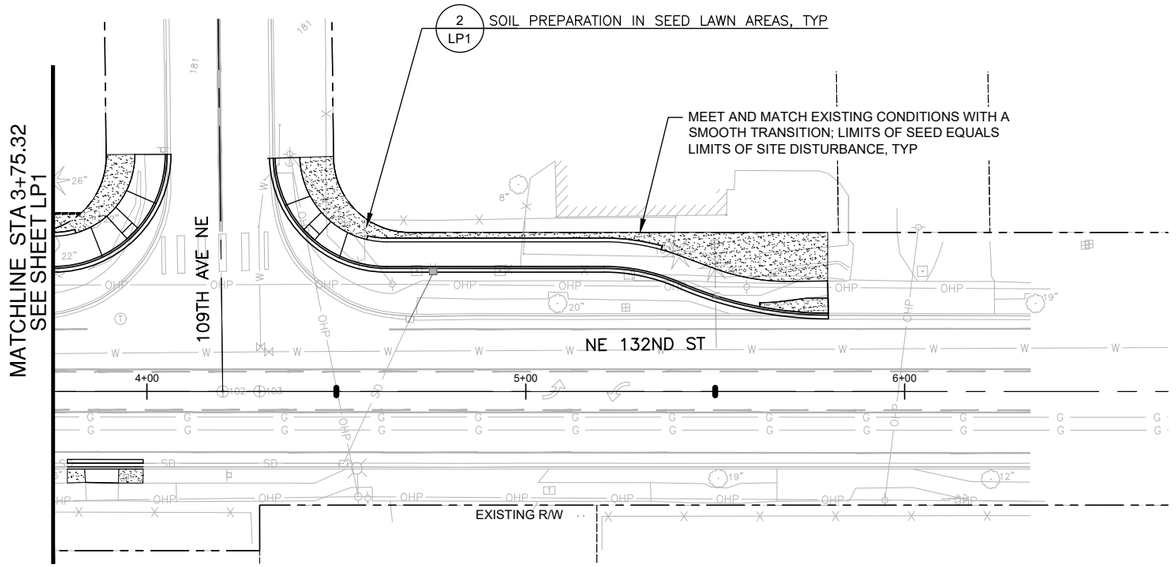
FUNDING NO. ________

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS

PLANTING PLAN 1

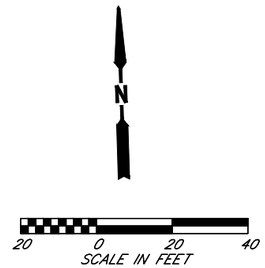
REFERENCE SHEET NO. LP2

SHEET 18 OF 21 SHEETS



NOTES

1. SEE SHEET LP1 FOR PLANTING SCHEDULE, NOTES, LEGEND, ABBREVIATIONS, AND DETAILS.



DATE	NO.	REVISION	BY

STATE OF WASHINGTON MERIT OVIIR NO. 1998 EXP. 03/10/21 LICENSED LANDSCAPE ARCHITECT

UPI NO.:	FED. AID PROJ. NO.:
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AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

HBB
LANDSCAPE ARCHITECTURE
2101 4th Ave, Suite 1800
SEATTLE, WA 98121
206.682.3051 phone
206.682.3245 fax

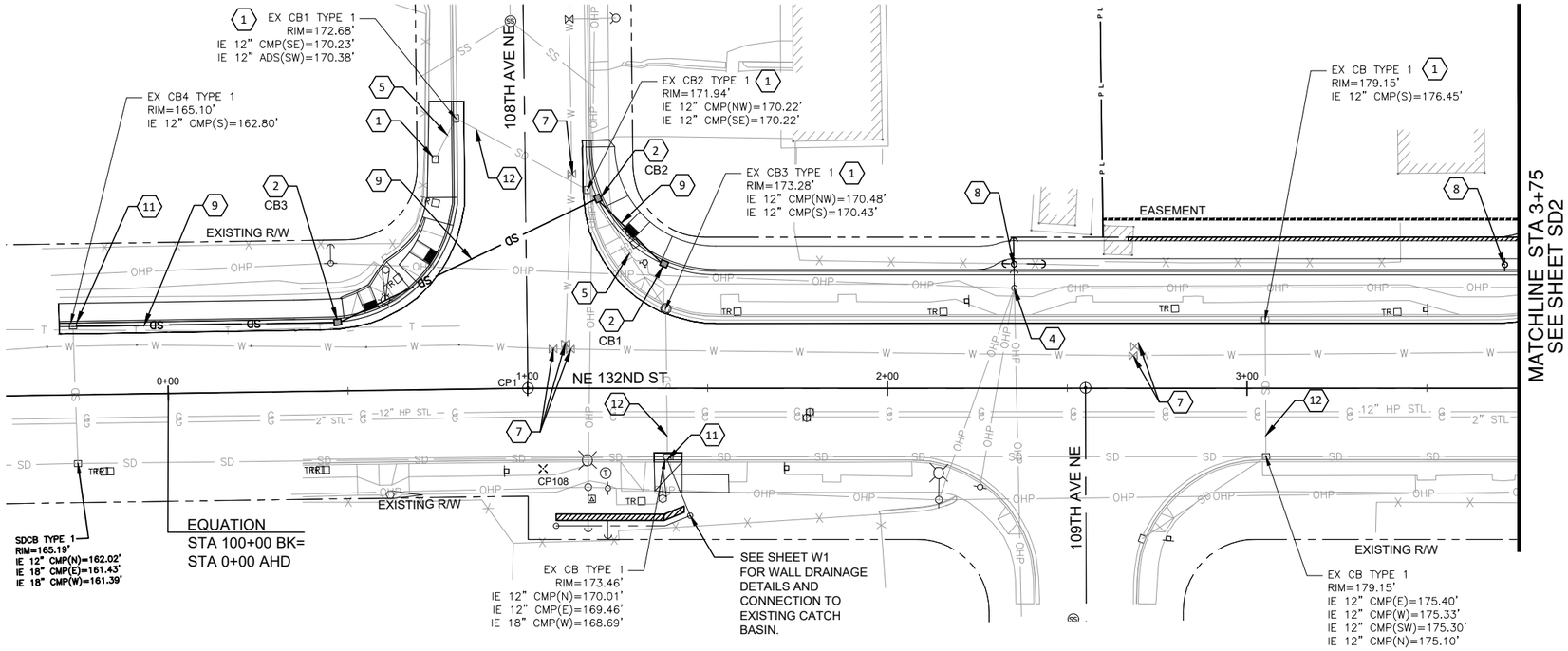
CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

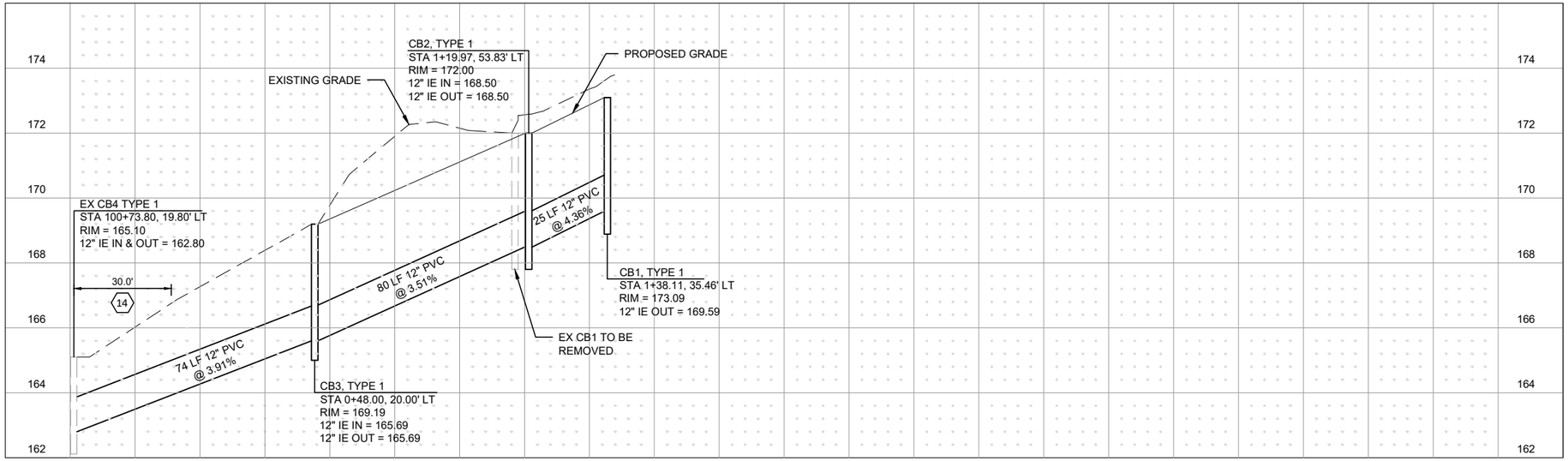
FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS

PLANTING PLAN 2

REFERENCE SHEET NO. LP3





CONSTRUCTION NOTES

1. REMOVE EXISTING CATCH BASIN TYPE 1.
2. INSTALL CATCH BASIN, TYPE 1 WITH INLET FRAME AND GRATE PER KIRKLAND STD. PLAN NOS. CK-D.07, CK-D.16A AND CK-D.14
4. REMOVE EXISTING POWER POLE (BY OTHERS)
5. REMOVE EXISTING 12 INCH DIAM CMP STORM DRAIN
7. EXISTING VALVE BOX TO BE REPLACED AND ADJUSTED TO GRADE BY CONTRACTOR, NORTHSHORE UTILITY DISTRICT TO PROVIDE VALVE BOX.
8. INSTALL UTILITY POLE (BY OTHERS)
9. INSTALL 12 INCH DIAM. PVC STORM DRAIN
11. CONNECTION TO DRAINAGE STRUCTURE
12. ABANDON STORM SEWER PIPE AND PLUG BOTH ENDS.
14. BACKFILL STORM DRAIN USING CDF

GENERAL NOTES

1. FOR CONNECTION TO EXISTING CMP PIPES, CONTRACTOR SHALL USE DIMPLED BAND CONNECTION AND SHALL MATCH EXISTING PIPE IN KIND.

N

20 0 20 40
SCALE IN FEET

NO.	REVISION	BY

DATE

BRYAN J. HUSCHKA — STATE OF WASHINGTON — 26659 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
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AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

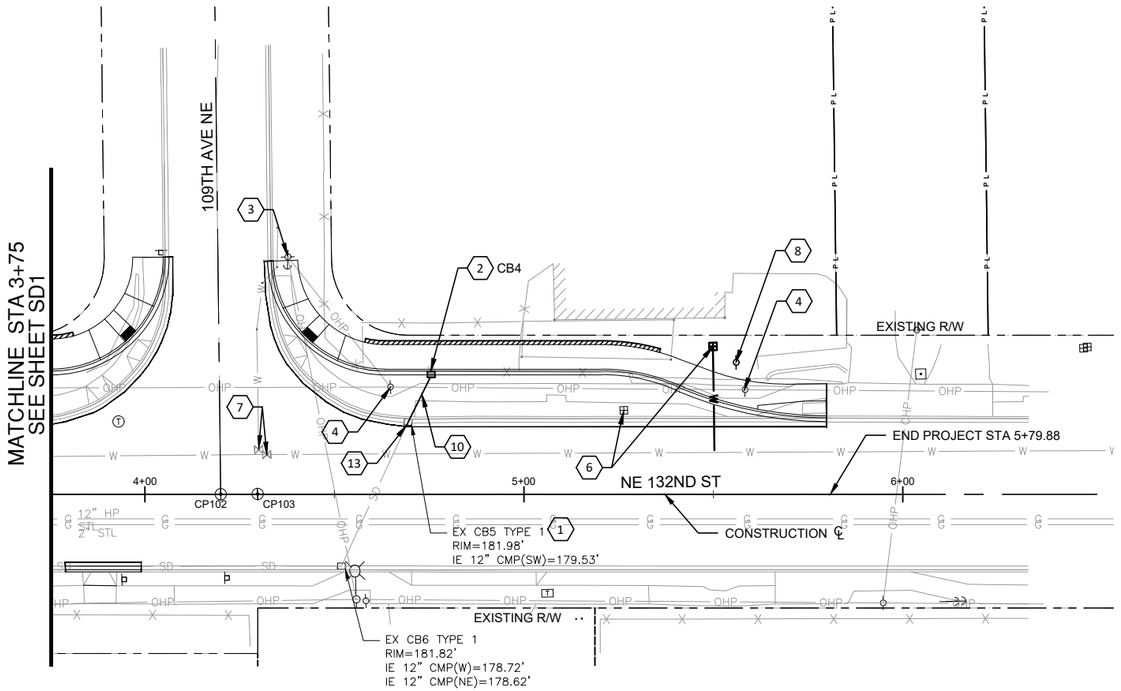
CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS DRAINAGE AND UTILITY PLAN AND PROFILE

REFERENCE SHEET NO. DR1

SHEET 20 OF 21 SHEETS

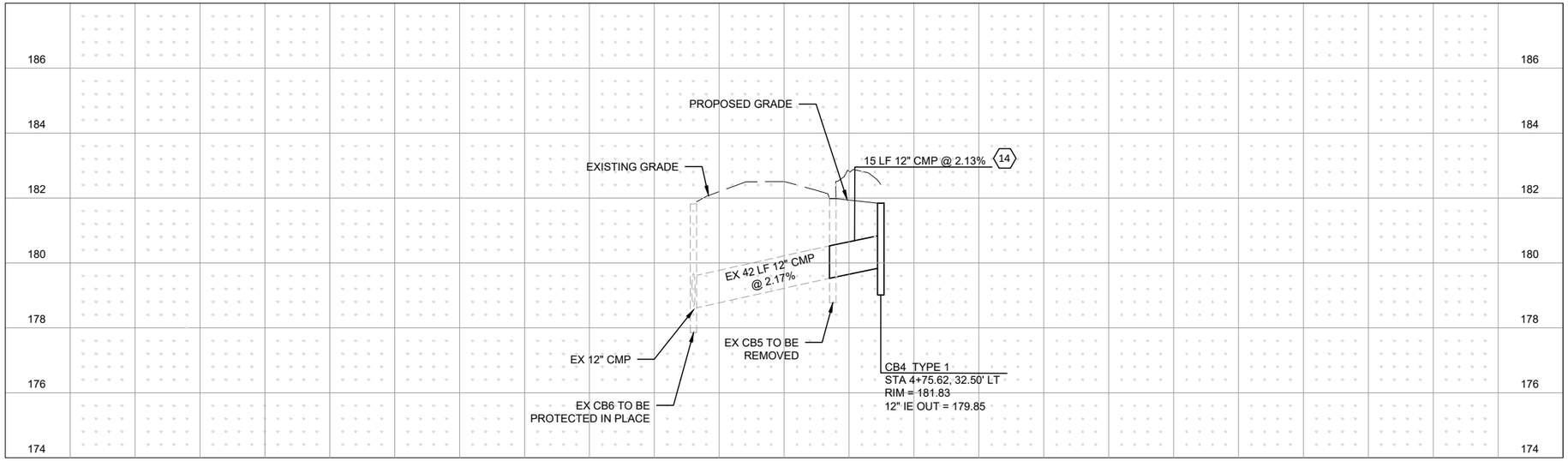


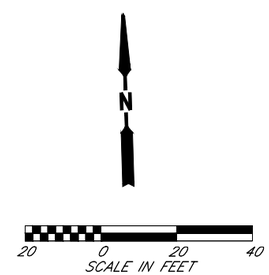
CONSTRUCTION NOTES

1. REMOVE EXISTING CATCH BASIN TYPE 1.
2. INSTALL CATCH BASIN, TYPE 1 WITH INLET FRAME AND GRATE PER KIRKLAND STD. PLAN NOS. CK-D.07, CK-D.16A, AND CK-D.14
3. PROTECT EXISTING POWER POLE IN PLACE
4. REMOVE EXISTING POWER POLE (BY OTHERS)
6. EXISTING METER TO BE RELOCATED BY NORTHSHORE UTILITY DISTRICT (NUD). CONTRACTOR SHALL COORDINATE WORK WITH NUD AND PROVIDE A MINIMUM 10 WORKING DAYS NOTICE IN ADVANCE OF WORK TO BE DONE. NUD WILL REQUIRE OFFSET AND FINAL GRADE STAKING TO SET LOCATION AND FINAL GRADE FOR THE RELOCATED METER
7. EXISTING VALVE BOX TO BE REPLACED AND ADJUSTED TO GRADE BY CONTRACTOR. NORTHSHORE UTILITY DISTRICT TO PROVIDE VALVE BOX.
8. INSTALL UTILITY POLE (BY OTHERS)
10. INSTALL 12 INCH DIAM CMP STORM DRAIN
13. CONNECTION TO EXISTING 12 INCH DIAM. CMP
14. BACKFILL STORM DRAIN USING CDF

GENERAL NOTES

1. FOR CONNECTION TO EXISTING CMP PIPES, CONTRACTOR SHALL USE DIMPLED BAND CONNECTION AND SHALL MATCH EXISTING PIPE IN KIND.





DATE	NO.	REVISION	BY

BRYAN J. HUSCHKA — STATE OF WASHINGTON — 19026659 — REGISTERED PROFESSIONAL ENGINEER
11/12/2021

UPI NO.:	FED. AID PROJ. NO.:
SURVEY NO.:	FIELD BOOK(S):
HORZ. DATUM:	VERT. DATUM:
DESIGNED BY: RWM	DRAWN BY: HL

AECOM
1111 THIRD AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
PHONE: (206) 438-2700
FAX: (866) 495-5288

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

FUNDING NO. _____

NE 132ND ST/108TH AVE NE INTERSECTION IMPROVEMENTS DRAINAGE AND UTILITY PLAN AND PROFILE

REFERENCE SHEET NO. DR2

SHEET 21 OF 21 SHEETS